

MANUFACTURERS' RECORD

A Weekly Southern Industrial and Hardware Newspaper.

VOL. XI. No. 13.
WEEKLY.

BALTIMORE, MAY 7, 1887.

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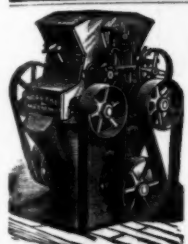
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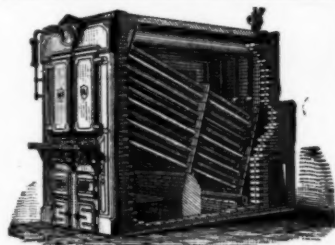
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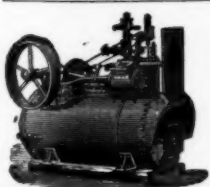
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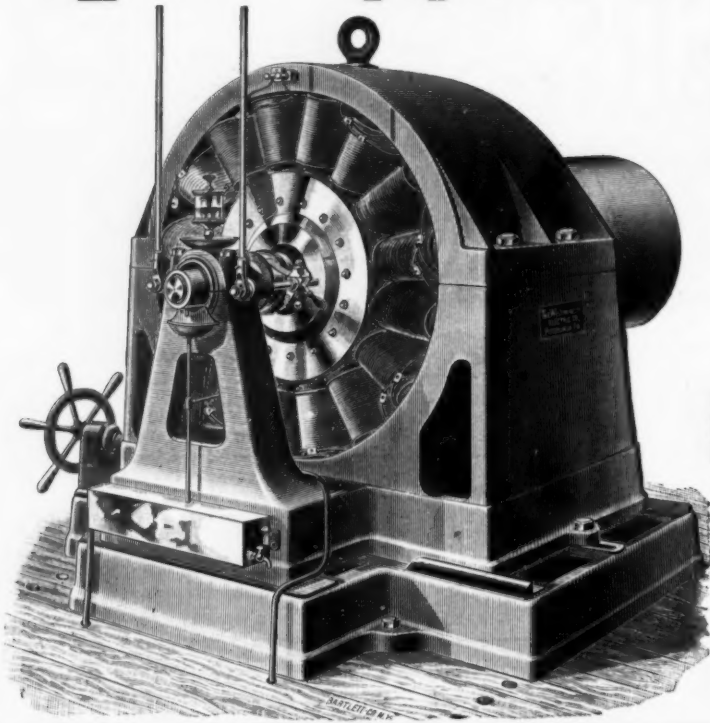
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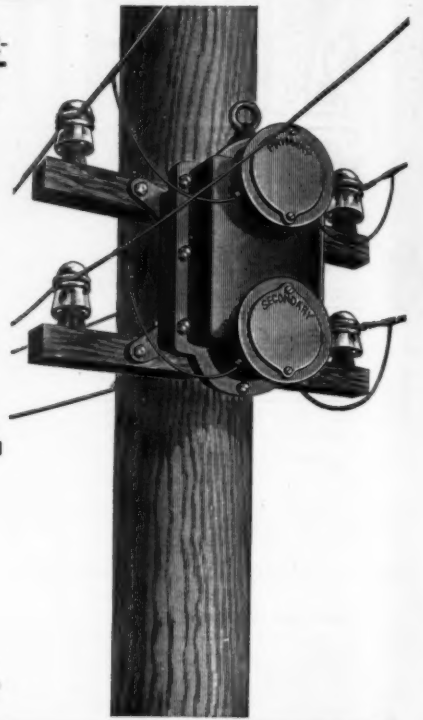
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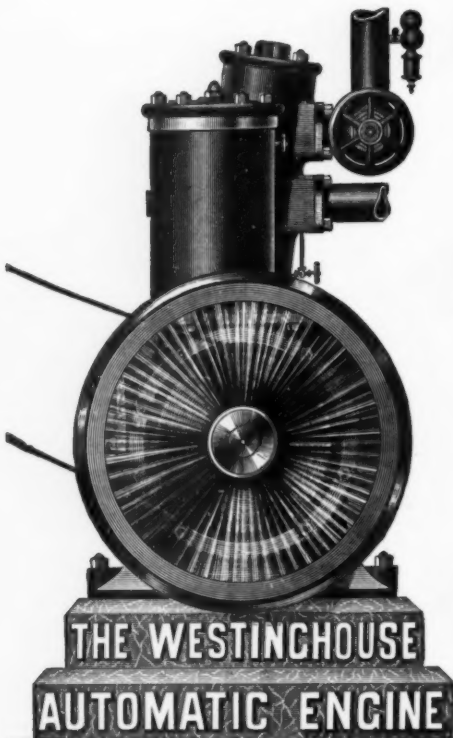
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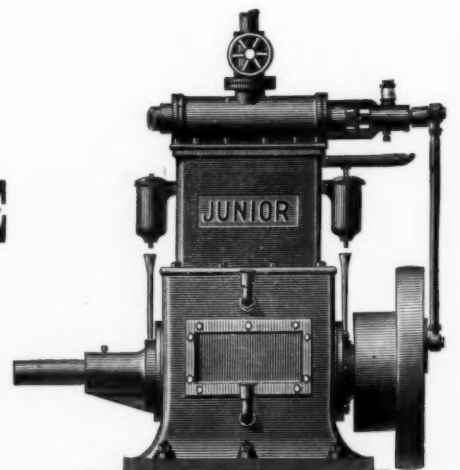
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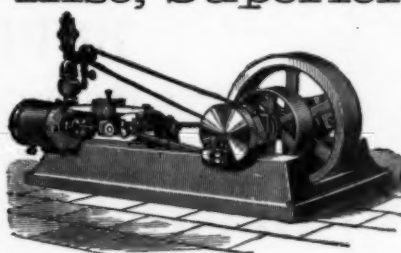
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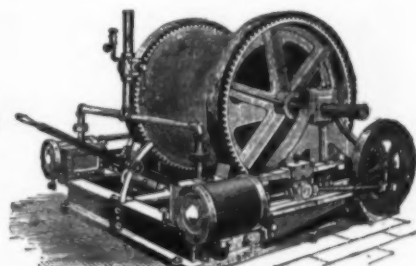


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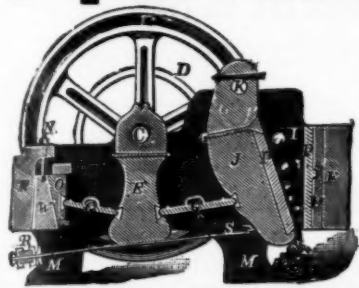
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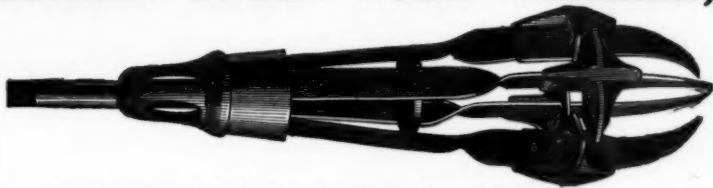
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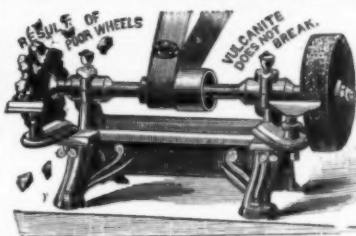
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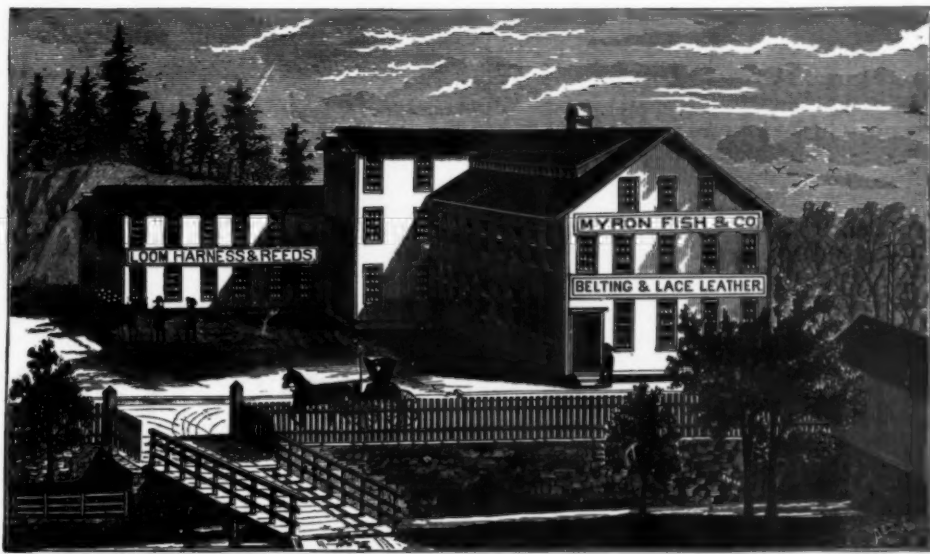
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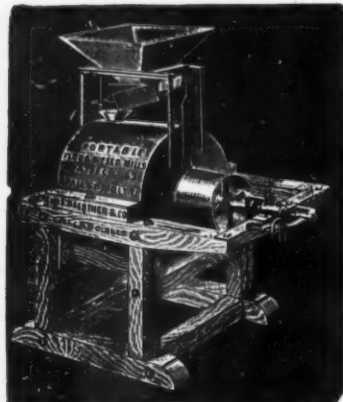
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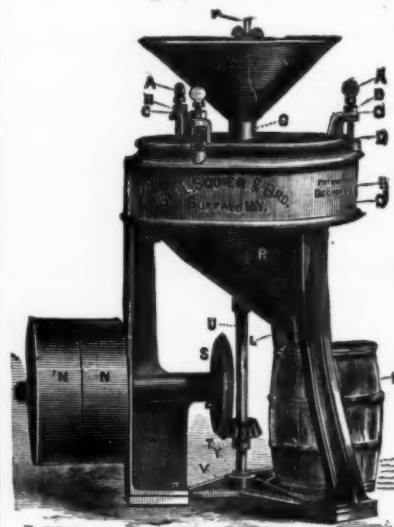
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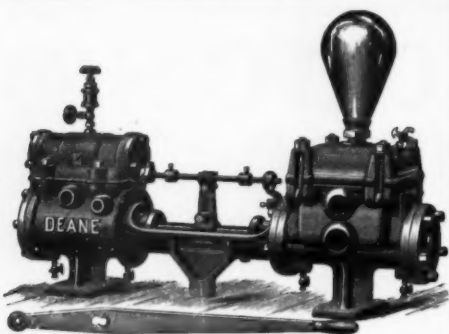
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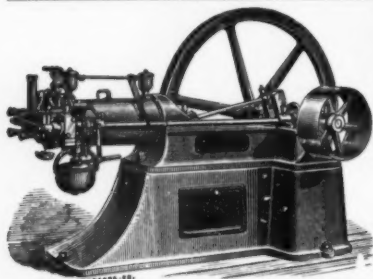
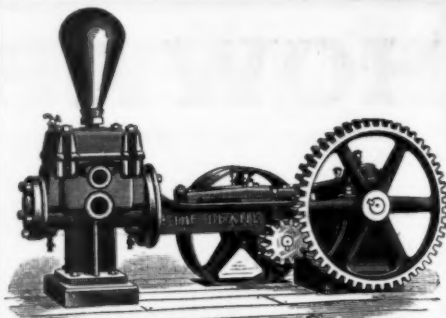
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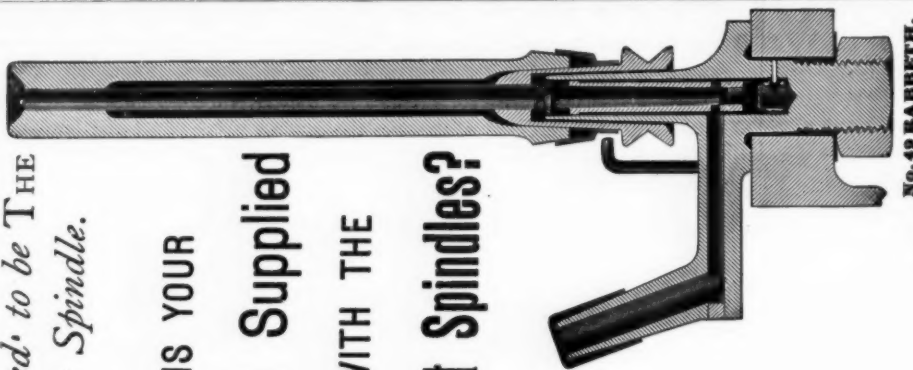
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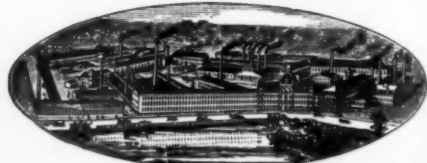
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BALTIMORE, MAY 7, 1887.

Activity in Southwest Virginia.

Southwest Virginia, the garden spot of the Old Dominion, is waking up to new life. The marvelous mineral wealth, the almost unlimited supply of timber and the agricultural advantages of that section have often been set forth in the MANUFACTURERS' RECORD. The capitalists of the North are at last beginning to appreciate these things, and they are putting their money into that country with a liberal hand. An immense amount of capital has recently been invested in Southwest Virginia mineral properties, and arrangements are being consummated for developing that region on a scale that will attract universal attention if fully carried out. The signs of the times all point in that direction as the center of great iron manufacturing enterprises within a short time, and we look for the building of several manufacturing towns that will rival some of the best ones in Alabama and Tennessee in the way of rapid growth. During the last few weeks a large number of iron-making companies have been chartered to operate in Southwest Virginia, and several of them contemplate the founding of new towns.

THE Nashville American, commenting on the sale of the Southern Bivouac to the Century Magazine Company, suggests that if the South is to ever have a successful literary magazine, its projectors must have more Southern pride and less Yankee cupidity.—Augusta Chronicle.

We would suggest that the projectors must have an almost unlimited bank account, and expect but little encouragement for at least 5 or 10 years. It is to be regretted, but it is a fact, nevertheless, that the South has never given the proper pecuniary support to any enterprise of that kind, and we are not surprised that after their strong efforts to give the Southern people a purely Southern magazine, the owners of the Bivouac have abandoned the enterprise. Moreover, we imagine that it is only the length of their pocket-book that enabled them to keep it alive as long as they did.

ADVERTISERS wishing to reach the manufacturers of all classes, mining companies, steel, iron and hardware dealers of the entire South, cannot find a better medium than the MANUFACTURERS' RECORD.

Relation of Manufactures to Farming.

There may be other papers in the South that can paint a more doleful picture of the poverty of that section than the Wilmington (N. C.) Star, but if there are any such we do not know them. To say that the South is beginning to prosper, and that gradually it is being lifted out of the poverty of the past, is to the Star what a red flag is to a bull. There is no more certain way of arousing the ire of our esteemed contemporary than merely to hint at the progress of the South. If the Star is to be taken as authority, North Carolina is yearly becoming poorer, but we imagine that the other papers and the people generally of that State will hardly admit the correctness of such a statement. Here is one of the leading papers of the State that day after day proclaims to the world that North Carolina is growing poorer, and is thus doing all in its power, whether intentionally or not, to depress the people by convincing them of their bad condition, and to keep away from the State outsiders who might be inclined to settle there. Nobody wants to move to a State that is rapidly going down hill to bankruptcy. And why does the Star do this? We know of no other reason than because it is such a hater of a protective tariff that it can see no good in anything that can come to pass, so long as that "thieving tariff" is in force.

The increase in manufactures, in mining and in railroad construction, giving profitable employment to thousands and tens of thousands of hands, brings little or no pleasure to the Star, because it wrongly imagines that it is nearly all done by Northern men and money and that it does not benefit the farmers. The Star says:

The truth is that thousands of farmers look to the North for their hay, bacon, pork, flour and meal. There are thousands that buy their butter, lard, vegetables and canned goods. This is the fact, but you will not learn it from the manufacturing organs.

Just why the "manufacturing organs" should seek to suppress these facts we do not know. The MANUFACTURERS' RECORD has repeated these truths regarding the purchase of foodstuffs in the North and West and urged a change until it has almost become monotonous. But are the farmers who buy their butter and vegetables deserving of sympathy? There may be found some slight excuse for those who purchase their bacon, flour and canned goods, but none, we imagine, can be offered for those who do not produce even their butter and vegetables.

The farmers, says the Star, are poor. Well, can our friend devise any better way for improving their condition than by the encouragement of manufactures? Manufactures give employment to consumers of agricultural products, thus building up a home market for all the diversified products of a farm. Take a county that is now wholly given to cotton

raising and in which there are no manufactures. It would be folly to preach diversified agriculture, the raising of fruits, vegetables, poultry, &c., for sale, dairying and similar things to the farmers of that county, because there is no home market for these products, and only in exceptional cases, where transportation is good, would it pay to ship them. Into the center of that county drop a Birmingham with its thousands of busy mechanics, and you at once create a market for everything that the farmer can raise. Instead of being forced to raise cotton at a loss, the farmer can turn his attention to small crops that bring in ready money every week in the year, and in place of poverty he is soon making a comfortable living. Every factory and every furnace started and every mine opened in the South is helping on the good time when the Southern farmer will no longer be forced by circumstances to raise cotton and cotton only. If the man who makes two blades of grass grow where only one grew before, is blessed, still more blessed is the man who plants a factory where there was none before, and thus not only furnishes employment to idle hands, but creates a market for the products of the surrounding farms.

This whole matter is most pointedly illustrated by the following from the North Carolina Progressive Farmer:

A prominent citizen of Alamance county said to us: "I can go among the farmers of my county and in twelve hours borrow \$50,000 at 6 per cent."

"How do you account for this financial strength?" we inquired.

"It is largely owing," said he, "to the fact that we have several large cotton factories giving employment to thousands who must be fed and furnish markets for everything almost that our farmers have to sell. You would be surprised to visit any one of these factories and see the great varieties of things brought there by the farmers to sell. They sell everything, and hence they produce everything and get the cash for it."

Here is a lesson for the poor, for the farmer, for the manufacturer, for the capitalist, for the merchant, for the political economist and the statesman. Diversified industry is the true and substantial basis of healthful and permanent prosperity. When will our people, our politicians, our capitalists and legislators realize this all-important truth?

This is what we have for years been trying to impress upon the people of the South, and the sooner this lesson is learned, the sooner will the farmers of that section become more prosperous.

AN illustration of the evils arising from the interstate commerce bill is given in the following extract from a letter of the Chattanooga correspondent of the Iron Age.

"There are," he says, "many small towns in the South, as well as many points west of the Mississippi river, that have within the last year started small foundries, and who were obtaining their iron and coke from either Chattanooga or Birmingham at fair rates of freight, who now have to pay an advance of from 100 to 400 per cent. These foundries and machine shops were just commencing to build up a good local business for the country surrounding them, but as matters now stand, will either be obliged to increase largely the prices of these articles, which the customers will hardly stand, or remove to more favorable points."

An Illustration of What the South is Doing.

Some days ago a gentleman who had known Decatur, Ala., as an old town, lacking enterprise and push, but who had not visited it since the first of the year, when a new order of things was inaugurated, was quite certain that the MANUFACTURERS' RECORD must be mistaken in reporting great progress there. He could not understand it and was sure that there must be some mistake. We can hardly be surprised, for the change has been so rapid and so great that anyone might be pardoned for believing it almost impossible. And yet it is true, and it serves as such an admirable illustration of the development of the South that a few facts may be of interest by impressing upon the Southern people what can be done by properly directed energy and enterprise.

On January 1st Decatur was apparently a finished town. It had a magnificent location, but it was making little or no progress. On January the 11th Major E. C. Gordon organized the Decatur Land, Improvement & Furnace Co., with a capital stock of \$7,500,000, and called to his aid in the management of this enterprise Judge H. G. Bond and Dr. Wm. E. Forest, the former as general manager and the latter as secretary. Less than four months have passed since the organization of this company. Let us see what they have accomplished in that short time—not what has been projected, but what has actually been consummated in the way of new enterprises now under construction. The list is as follows:

Enterprise.	Cost.	No. of hands.
Charcoal company.....	\$125,000	200
Charcoal iron furnace, (70 tons)....	100,000	100
Iron furnace, (100 tons).....	225,000	200
Iron bridge building company.....	100,000	150
Bark extract company.....	65,000	100
Steam engine and iron works.....	100,000	100
Cotton compress.....	45,000	50
Sash and door factory.....	50,000	100
Sash and door factory.....	15,000	50
Electric light works.....	8,000	5
Agricul. implement manfg. comp'y.	25,000	50
Wat' r works.....	100,000
Ice factory.....	10,000
Three brick-yards.....	40,000	90
Two national banks.....	200,000
Insurance company.....	100,000
Building association.....	300,000
Natural gas company.....	200,000

Of course these works have not all been completed yet, but work on all of the industrial enterprises is under way, while the banks, building associations, &c., have been fully organized for business. Moreover, several railroads have been organized and negotiations are pending for a large number of other enterprises, some of which will doubtless be closed very shortly.

Certainly this is a very forcible illustration of what can be done and of what the South is doing. This is simply what one small town has done in less than four months, but at this rate of progress it will not be a small town very long, for the energy and enterprise displayed in building up Decatur are sure to result in making it a great city.

To those cities of the South that are making slow progress, we can only point to Decatur, and commend to them for imitation the work done in that place.

Two Notable Events.

Two notable events occurred simultaneously in Charleston early last week. One was the unveiling of the statue of John C. Calhoun; the other the session of the South Atlantic Department of the American Shipping and Industrial League. The first was an august ceremonial worthy of that historic city and of the occasion that gave rise to it. The second was a small delegated assemblage whose membership represented chambers of commerce, boards of trade, produce and cotton exchanges in every State from Florida to the Chesapeake. At the first a notable oration was delivered by one of the most gifted statesmen the South has ever produced, and in that oration a chord was struck that will never cease to vibrate in American hearts so long as this republic endures. We have not to do with the splendid analysis of Calhoun's character which was given by Secretary Lamar, nor to the eloquent tribute paid to his memory as an orator, a scholar and a statesman. Such topics may more appropriately be handled by other journals. To the large constituency the MANUFACTURERS' RECORD addresses, the most telling and important part of Lamar's masterly oration was the following quotation from a speech made by Mr. Calhoun in 1846, while engaged in the famous Oregon debate.

Mr. Calhoun said in substance that "Providence had given us an inheritance stretching across the entire continent from ocean to ocean, from north to south, covering by far the greater and better part of its temperate zone, and comprising a region not only of vast extent, but abounding in all resources, excellent in climate, fertile and exuberant in soil, capable of sustaining in the plentiful enjoyment of all the necessities of life a population of ten times our present number; that our great mission as a people is to occupy this vast domain; to replenish it with an intelligent, virtuous and industrious population; to convert the forests into cultivated fields; to drain the swamps and morasses and cover them with rich harvests; to build up cities, towns and villages in every direction, and to unite the whole by the most rapid intercourse between all the parts." He then rose to higher grounds and a broader view and stated that we were charged by Providence not only with the happiness of this great and rising people, but in a considerable degree with that of the human race. After passing through a rapid review of the great discoveries and inventions, multiplied beyond all former examples, by which the vast powers of nature were rendered subservient to the purposes of art, to the spread of civilization, to the general progress of the nation in knowledge and to its diffusion through all ranks of society, more especially to the two great agents of the physical world, steam and electricity, "the latter of which," he said, "had been made an instrument for the transmission of thought by lightning itself. Magic wires are stretching themselves in all directions over the earth, and when their mystic meshes shall have been united and perfected, our globe itself will become endowed with sensitiveness, so that whatever touches on any one point will be instantly felt on every other." He declared that all this improvement and progress are but the dawn of a new civilization, more refined, more elevated, more intellectual, more moral than the present and all others

preceding. "We have been raised up," said he, "by Providence to advance these great and noble purposes. * * * We have a government of a new order, perfectly distinct from all others which have preceded it; a government founded on the rights of man, resting not on authority, not on prejudice, not on superstition, but on reason and consent. All civilized governments, if it succeeds, must in the course of time conform to its principles. I trust we shall not fail to fulfill our highest destiny."

We have quoted this part of Secretary Lamar's oration entire that our readers may realize the sagacity and foresight of John C. Calhoun by comparing his prophecy of forty years since with the wonderful fulfilment as recorded every week in these pages. Through all the vast South, then thinly settled except in its maritime cities, there is now a population, "intelligent, virtuous and industrious," working with might and enthusiasm to fulfill its mission—"to convert the forests into cultivated fields; to drain the swamps and morasses and cover them with rich harvests; to build up cities, towns and villages in every direction, and to unite the whole by the most rapid intercourse between all the parts."

There is one thing yet needed to complete the prophecy by giving to this industrious population the perfect machinery for working out its destiny, and that one thing is an American merchant marine. Once we had a great merchant fleet that carried our flag to every commercial port in the world; now we have only a coasting trade; and the same power that insidiously caused the destruction of our ocean commerce is now seeking the control of our coasting trade also. It was to determine upon some united action for the revival of American shipping that the convention of the South Atlantic Department of the League assembled at Charleston, and it was a significant coincidence that on the evening of the same day that Secretary Lamar delivered his oration, a body of Southern business men in the same city should have adopted a series of resolutions in which were embodied ideas enunciated by Mr. Calhoun in his celebrated debate with Mr. Randolph, when he said: "Our commerce annihilated would spread individual misery and produce national poverty." And in another paragraph of the same speech, this: "Neither agriculture, manufactures nor commerce, taken separately, is the cause of wealth; it flows from the three combined, and cannot exist without each other. Without commerce industry would have no stimulus, and without manufactures commerce would be without means of protection." Commerce, as the word was then used, signified an interchange of commodities between nations rather than trade between people of the same country. Mr. Calhoun's meaning was identical with that of Thomas Jefferson, the first Secretary of State, who, in 1793, in a report to Congress, said:

Our navigation involves still higher con-

siderations. As a branch of industry it is valuable, but as a resource of defense, essential. Its value as a branch of industry is enhanced by the dependence of so many other branches on it. In times of general peace it multiplies competitors for employment in transportation, and so keeps that at its proper level; and in times of war—that is to say, when other nations who may be our principal carriers shall be at war with each other—if we have not within ourselves the means of transportation, our produce must be exported in belligerent vessels, at the increased expense of war freight and insurance, and the articles which will not bear that must perish on our hands.

But it is as a resource of defense that our navigation will admit neither of neglect nor forbearance. The position and circumstances of the United States leave them nothing to fear on their land-board and nothing to desire beyond their present rights. But on their seaboard they are open to injury, and they have there, too, a commerce which must be protected. This can only be done by possessing a respectable body of citizen seamen, and of artists, and establishments in readiness for ship-building. * * *

The materials for retaining our due share of navigation are ours in abundance. And, as to the mode of using them, we have only to adopt the principles of those who put us on the defensive, or others equivalent and better fitted to our circumstances.

We have said that the passage of resolutions embodying these ideas at the same time that the city was resounding with the music and huzzas that followed the delivery of the commemorative oration was a significant coincidence. It was even more than that, for it proved that the people who had followed the teachings of their greatest leader until they were led into the horrors of civil war, and who bore themselves heroically through all the terrible years that ensued, are equally ready to adopt the lofty ideas of the same great statesman, and to pursue the commercial policy he inculcated. Charleston and her sister ports of the South Atlantic, by the voice of a delegated assembly, have declared that agriculture, manufactures and commerce are co-existent, even as did Mr. Calhoun, and have joined in demanding of Congress such action as shall hasten the restoration of an American merchant marine.

SOME months ago, when Mr. John S. Perry, the great stove manufacturer, of Albany, N. Y., decided to establish extensive stove works in the South, he spent a considerable time investigating the advantages of different locations for this industry. Finally he decided upon South Pittsburg, Tenn., and a better endorsement of the advantages of that place could hardly have been asked. These works will shortly be completed, thus aiding by one more great enterprise the diversification of the South's industries. South Pittsburg is well located. It is surrounded by coal, iron and timber, and has the advantage of being on the Tennessee river. Some of the advantages of the town are set forth in an advertisement published elsewhere in this issue, to which attention is invited.

If you wish to keep posted on the progress of the South, read the MANUFACTURERS' RECORD. Price \$3.00 a year.

A Suggestion to Southern Towns.

The business men of the South who are leading in the great development of the industrial interests of that section have shown remarkable energy and enterprise in making known to the world the advantages and attractions of the many progressive cities that are springing up all over the Southern States. It would be well, however, for them to remember that the work has really just commenced, and that if the South is to keep up its present rate of progress there must be steady, persistent efforts to secure this. It would be a fatal mistake to imagine that this progress has attained such momentum that it would continue indefinitely of its own accord. The South's industrial interests would, of course, still increase, but less rapidly than the present condition, of affairs justifies.

The South is just at that position where the wide attention which has been attracted can be turned to the best advantage, but to do this a liberal and progressive spirit must be shown. The same generous rivalry to secure the building of railroads and the location of new industries must be displayed, and the advantages of the South must be constantly placed before the whole country. It is not enough that some great effort be made for a week or a month to attract public attention, expecting this to do for all time, but week after week and month after month the work must be vigorously pushed. If there are any special advantages possessed by a town, or if it has any inducements to offer, it must keep these facts constantly before the public. There ought then to be somebody whose duty it is to attend promptly to all inquiries. In many towns there is no organization of any kind to which such letters can be addressed, and even in some of those where bureaus of information, whether going under that name or as chambers of commerce or manufacturers' associations, have been organized, the fact is not known to the country, and naturally not much good can be accomplished. Suppose the people of Atlanta would put into the hands of the managers of their Manufacturers' Association \$10,000 a year, and that would be a small sum for the work to be done, to be spent entirely in advertising. The advantages and inducements that Atlanta offers to manufacturers could then be kept prominently before the country, and many people who desire to establish factories in the South would write for full information; whereas now, not knowing of any such institution authorized to furnish the facts that are desired, they look elsewhere. The \$10,000 thus spent, if judiciously used, would be returned to Atlanta many fold. And what is true of Atlanta is equally as true of all other towns and cities in the South. We believe that if Decatur, Anniston, Florence, South Pittsburg or any of these towns would secure a man who knows how to advertise judiciously, and give him \$25,000 for that purpose, the results would astonish even those who were bold enough to attempt such an undertaking.

A New Code of Morals.

We do not know that any one ever accused the American Cotton Oil Trust of having any surplus amount of conscience in its dealings, but we very much doubt whether anybody, even its worst enemies, ever openly charged it with being as free from honorable motives as Mr. R. T. Chaney, who is represented as a "leading member of the American Cotton Oil Trust," is said to have admitted some days ago. Mr. Chaney passed through Memphis on his way to New Orleans, where he is to defend the suit against that company, and, according to the Appeal, he made the following statements, and these facts, be it remembered, were made public as though there was nothing in them not worthy of commendation:

We claim that we are pursuing a perfectly legitimate course, and are doing nothing but what any honorable business man would do in the conduct of his affairs. At the same time, some of us admit that all the tremendous power of the company's capital is used to drive men of moderate means from the industry. We also admit that wherever we see a section of the country of which we wish to obtain control, we propose to buy out the mills in operation there, and if the owners will not sell we will come in ourselves, bid up the price of seed to a point where there is no profit in the industry, and finally force the local manufacturers to sell to us or leave. The opposition manufacturers claim that this is conspiracy and tyranny of the strong over the weak. It is not conspiracy, but a policy such as any business man pursues, using all the advantages that his wealth and position give him in his competition with others. While we have encountered a great deal of opposition all through the South, there has been no successful resistance. However bitter the owners of any mill may be, they will not run the risk of utter ruin in resistance. We leave for the owner of a mill half a loaf in the shape of a superintendency of the property under his supervision, and pay him a moderate price for his plant. This he considers better than having his works closed and his business destroyed utterly.

What good can the South expect from such a company? If Mr. Chaney is correctly reported, then the motto of his company, we suppose, is "Might makes right." Commenting on these statements, the Cincinnati Price-Current says:

These acknowledged practices are in accordance with what has been known, but they have not previously, to our knowledge, been held up so boldly as claiming to be worthy of the sanction of men governed by honorable motives. From the Cotton Oil Trust standpoint it is legitimate to do anything to destroy opposition and competition. Men are expelled from mercantile exchanges as members, and sometimes are made to suffer penal punishment, for misdeeds no more seriously in conflict with good morals and the rights of fellow-men than these practices of the American Cotton Oil Trust, assumed to be "honorable." The strong man of evil nature overcomes the weaker one and abstracts his purse, and if caught serves a term as a prison convict. The iniquitous band with millions of dollars conspire to do a wholesale business of robbery and destruction, accomplish their designs, and defy even public condemnation of their course.

If you are not already a subscriber to the BALTIMORE MANUFACTURERS' RECORD, send us \$3 and you will receive it regularly for one year, or six months for \$1.50.

The Roan Mountain Iron Region.

WILDER, N. C., April 1st, 1887.

Editor Manufacturers' Record:

Knowing the careful interest with which your journal has chronicled all reliable testimony regarding new enterprises in the South, and the care which you have taken to lay before your readers any valid facts concerning new fields for investment in this part of the Union, I have concluded to send you the following account of this portion of North Carolina, which, with the adjacent portion of Tennessee, lying in the same geological horizon, I have designated in other articles elsewhere published as the Roan Mountain Iron Region. This name it should bear for the following reasons: The great Roan, the giant of the Appalachians, is the geological center of this remarkable series of magnetic iron-ore deposits. By this I do not mean to say that it is the precise focus of the great physical convulsions which, at some remote period, flexed, folded and metamorphosed the vast sedimentary deposits of which his flanks are composed, though even that may be approximately true, but to say that the outcrops of magnetic iron ores and others lying in this belt seem to reach out from Roan as a sort of parent mass, as all his slopes and spurs contain surface indications and "seed ore" to a greater or less extent. This monarch of mountains is 6,391 feet high, nearly ten miles in length, is a monoclinical, and has the normal Appalachian axis. It is by far the grandest and most imposing type of the Southeastern mountain system, and this iron region should bear the name of the cloud-capped Titan, about whose feet the fires of many forges must glow in a future not remote.

It shall be my purpose in this article to set before your readers as briefly and concisely as is possible the facts concerning this wonderful country, and the evidences which the most careful study has adduced in favor of its interest to investing capitalists. It is a fact well known that the larger bodies of fine steel-making ores have hitherto been discovered in the older rocks. The Archaean region about Lake Superior in Canada, New York, New Jersey, and wherever first-class steel ores have been found, are cases in point. Over the great interior basin of the country, if we except the small Archaean outcrop in the neighborhood of Iron Mountain and Pilot Knob, in the State of Missouri, the vast beds of hematites and limonites contain but a small amount of genuine steel-making ores. It has been one of the redeeming features of the Archaean regions the world over that high-grade steel ores have been found in regions often otherwise worthless and unattractive.

This great geological epoch falls naturally into two periods—the elder or Laurentian, in which the rocks are characterized by a predominance of iron-bearing minerals, especially hornblende, pyroxens, sabbite, and others of the Augite section, interstratified with crystalline schists more or less silicious, and in some cases with vast deposits of crystalline limestone. Sometimes we find beds of quartzite and conglomerate, but these are comparatively rare in the Southern extension of this period, but it is in this group of rocks in the Marquette region of Michigan, in the Adirondack region of New York, in the Dannemora region of Sweden, and elsewhere that the great beds of magnetic and specular ores are found. The later period, the Huronian, is characterized as much by the presence of acidic rocks as the Laurentian is by those of the basic series, the rocks most predominant being silicious slates and conglomerates, layers of flint, jasper and chert, and quartz and jasper conglomerates. The precise point of division between these two periods is yet a matter of dispute among authorities among the iron-bearing rocks of the Lake Region, but plain unconforma-

bility has settled the argument in many well-known cases. Having thus briefly outlined the geological basis upon which the discussion of this region must be predicated, we must now proceed to consider how far the geological evidence, which is the only safe guide if it be accurately interpreted, will go to prove that this region really belongs to the Archaean iron-bearing series. In order to thoroughly appreciate the application of the evidence we must first know precisely where we are. Roan Mountain lies in Mitchell county, North Carolina, on the one side, and in part in Tennessee on the other, as the line between these States passes along the crest of a northwestern spur of the mountain. It is almost exactly in the center of the long, narrow belt of Archaean rocks that formed the incipient Appalachian axis, and is the southward continuation of that Appalachian line of these older rocks that begins in Dutchess county, New York, extends along the Highlands of New Jersey, the Durham Hills of Pennsylvania, to South Mountain, and thence along the Blue Ridge through Virginia into North Carolina. Throughout this region, from its northern to its southern extremity, the following geological data have accompanied the discovery of iron ores in workable quantities and of proper quality.

First.—The presence of iron-bearing minerals above mentioned, and their constant paragenesis or association.

Second.—The presence of epidote, chlorite and chlorite schists in the immediate vicinity of the iron bodies themselves.

Third.—The presence, in many cases, of graphite, either in masses or disseminated, generally in the limestones.

Fourth.—The presence of titaniferous iron ore in greater or less quantities.

Fifth.—The presence of silicious rocks, jasper, cherts, or quartzites, in the immediate vicinity of the ores.

Sixth.—The position of these ores as well-defined beds, having the same dip and strike as the containing rocks, with few cases of irregular segregation, such as is a distinguishing feature of the limonites or brown hematites of the interior region.

Now it is matter of fact that all these evidences occur here without a loss or exception, and that they are not strained testimony, wrested for a particular purpose from a mass of unsatisfactory data, but they are the predominant features of the geological structure of this region.

It is true that the amount of actual ore shipment is very small. The Cranberry mine, which has its own thirty miles of railroad, is the only body of this ore that has yet been brought into prominent notice by actual development. The Roane Iron Co., of Chattanooga, is now opening up another deposit a few miles northwest of Cranberry, on the same belt of ore, which gives promise of inexhaustible quality and great richness. Still further to the west lies the property of the Roan Mountain Steel & Iron Co., of which Hon. William Means, president of the Metropolitan National Bank, of Cincinnati, is chief officer, and upon which numerous outcrops, not only of magnetic ores, but also of specular and compact red hematite ores, occur. The features of the whole region are substantially identical, and the question of the presence of inexhaustible deposits of the finest steel-making ores is thoroughly well determined. As this region passes over the main axis of the Unakas to the southwest, the ores change, first from magnetic to specular, then from specular to the compact hematite, and finally, beyond the limits of the metamorphic region of the Laurentian and Huronian formations, we reach the brown hematites or limonites of the valley of East Tennessee.

This whole region is one of remarkable fertility for mountain land. A few of the ridges are quartzites and comparatively barren, but by far the greater portion is of very great productiveness, resulting from the decomposition of the potash lime and soda

feldspars, which are prominent characteristics of the gneisses and syenites.

As pasture and meadow land much of it has no superior. The finest vegetables grow here that can be produced in the most favored regions. All the fruits that are cultivated are sure crops and of the finest quality. It is especially adapted to the production of small fruits, many of which are indigenous. It is the paradise of the grape and strawberry. The timber is unequalled for size and quality. Poplar, white pine, ash, all the best oaks, hard and soft maple, linn, cucumber, cherry, birch, buckeye and other hardwood trees of commercial value and importance are found here, not sparingly distributed, but in immense tracts of unbroken primitive forest, awaiting only the completion of railroads to offer lumbermen the greatest inducements that can be found in any part of the South.

The climate is perfect, malarial diseases are unknown, and this is an inducement of which proposing investors will take proper cognizance.

With the best of soil, a perfect climate, water as pure as crystal mountain streams can be, a fertile and varied soil, good timber in abundance, fine water-power upon all sides, and a supply of the best steel-making ores awaiting only the miner's pick, this country, when opened by railroad facilities, must and will attract the attention of capital, for here are all the possibilities of successful enterprise concentrated so that they may be readily controlled. That the thousands of readers who depend upon the enterprise of the MANUFACTURERS' RECORD for reliable information may look in upon us and see us as we are is the wish of DON FELIX.

A NEW era of progress seems to have dawned upon Memphis, a city which, by the way, has been doing remarkably well for several years. Recently a large land company, "The Chickasaw Land Co.," has been formed by such well-known capitalists as Napoleon Hill, J. A. Van Hoose and others. This company owns 3,175 acres of land immediately adjacent to Memphis, with long wharf frontage on the Mississippi. Every letter that goes from their office bears the announcement of "free sites for factories and homes for operatives, with unlimited free water." They are determined to push forward the industrial development of Memphis, and their efforts will undoubtedly, we think, be successful.

THE South Pittsburg City Co., of South Pittsburg, Tenn., have issued a 30-page pamphlet, giving a history of that progressive place, and showing its great advantages as a place of business as well as of residence. Its large industries are fully described and the resources of the tributary country set forth. The opinions of some well-known authorities are given as to the future of the town, and to any one contemplating a move to any of the new Southern iron centers this pamphlet will be of value. It is beautifully bound, the front cover showing three handsome houses in South Pittsburg, and the back a very striking scene of the town nestled at the foot of the mountains, but we are sorry to say that the printing on the inside is badly done, thus, to some extent, spoiling the good effect of the covers.

CONSTRUCTION DEPARTMENT.

WE PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

ALABAMA.

Anniston.—E. D. Willett contemplates erecting on Noble street a four-story brick building, 70x100 feet.

Anniston.—W. C. Stewart and E. D. Willett contemplate building a four-story hotel on Noble street, 90x120 feet.

Anniston.—I. R. Welch will, it is reported, manufacture fire-bricks.

Bessemer.—J. A. Blaffer and Sam'l Mullen, of New Orleans, La., will organize the Bessemer Brick & Lumber Co. They have purchased and enlarged the brick works of H. F. De Bardeleben. The capacity will be about 40,000 bricks daily.

Birmingham.—The Iron Age Publishing Co. will erect a five-story building.

Birmingham.—J. A. Montgomery, F. Y. Anderson, G. B. West, W. J. Cameron and I. Forst have incorporated a company to build a hotel at Leeds. The capital stock is \$50,000.

Birmingham.—A. P. Sims, Baxter Smith, Jr., and others will erect a large building corner of First avenue and Twentieth street.

Birmingham.—Herman Scholtz has commenced work on his opera house, previously reported.

Birmingham.—The Elyton Land Co. will build a large blast furnace and a rolling mill on Village creek, near Birmingham.

Birmingham.—John J. Howe and E. D. Bacon, of Cincinnati, O., will erect a shirt and overall factory corner D and Seventeenth streets.

Birmingham.—Samuel R. Lowery, of Huntsville, is organizing a \$50,000 stock company to cultivate and manufacture silk.

Birmingham.—The East Birmingham Iron & Steel Co. has recently been chartered with a capital stock of \$500,000. G. B. West can probably give information.

Birmingham.—The Birmingham Hollowware & Enamelling Co., capital stock \$35,000, has been chartered by J. L. Watkins, A. O. Lane, Tiernan Walton and C. B. Rencher.

Birmingham.—The Pleasant Valley Land & Manufacturing Co., capital stock \$50,000, has lately been chartered.

Birmingham.—R. J. Miles & Co., whose planing mill was lately reported as burned, will rebuild on a larger scale.

Birmingham.—Arrangements have been made for the erection of a \$100,000 rolling mill and a \$20,000 nail and edge tool factory. C. A. Hawkins can give particulars.

Blount Springs.—The Blount Springs Co. has been incorporated by Maclin Sloss, Fred. Sloss, J. W. Sloss, Jr., and A. W. Smith, of Birmingham. The capital stock is \$300,000.

Blountsville.—Proposals for building a court-house will be received until May 14th by Jesse W. Ellis.

Brewton.—D. D. Ruggles and E. E. Du Ville, of Manistee, Mich., are purchasing timber lands with a view to erecting a lumber mill.

Bynum.—Barnwell & Huger have purchased machinery for a saw mill.

Dadeville.—J. B. Berkstresser, T. A. Vaughn and Mr. Danforth are organizing a land and improvement company.

Dadeville.—J. B. Berkstresser has purchased the Black Mills falls water power and will, it is said, organize a stock company to build a cotton factory.

Decatur.—Inman & Co., of New York, will build the water works reported last week.

Escambia County.—Knabe & Scott, of Montgomery, are the purchasers of the 34,000 acres of timber lands reported last week as sold.

Florence.—The capital stock of the company reported last week as formed to build a rolling mill is \$150,000. The Florence Land, Mining & Manufacturing Co. can probably give information.

Florence.—It is stated that three companies have been formed to build a 100-ton iron furnace each. J. H. Fields, of Columbus, Miss., is interested. The Florence Land, Mining & Manufacturing Co. can give information.

Huntsville.—The contract to enlarge and improve the Huntsville Hotel has been awarded to Stoops Bros., of Chattanooga, Tenn.

Jacksonville.—The erection of a 100-ton furnace, a paper mill and a cotton mill are being discussed. C. H. Montgomery can give information should it be decided to establish these enterprises.

Jacksonville.—The Jacksonville Land Co., lately reported as organized, will build one or more hotels. Water works will also be built.

Live Oak.—A saw mill will be built by Mr. Thompson, of Verbena.

Montgomery.—A stock company has, it is said, been organized with a capital of \$25,000 to build and repair freight cars. If true, the Montgomery Land Improvement Co. can give information.

Montgomery.—Jos. L. Friedman, of Paducah, Ky., will build large vinegar works. He will erect temporary works at present and later on a factory at Riverside, 75x150 feet.

Opelika.—The East Alabama Railroad Co., reported last week as increasing their capital stock and contracting for the extension of their road to Roanoke, will extend their road to Anniston by next winter.

Oxford.—There is talk of a cotton factory being erected.

Selma.—G. M. Adams, of Nashville, Tenn., will erect a steam laundry and shirt factory.

Selma.—The Selma Street Railroad Co. contemplate extending their road.

Selma.—W. H. Hunt, E. E. Wise, Walter H. Trimby, William L. Goodwin and J. Webb have organized the Selma Cigar Manufacturing Co., capital stock \$4,000. Mr. Hunt is president.

Sheffield.—The Birmingham & Sheffield Railroad Co., P. Campbell, superintendent, wants proposals for grading and trestling for from 10 to 30 miles of road.

Sheffield.—The Alabama & Tennessee Coal & Iron Co. will soon open their coal mines, previously reported.

Sheffield.—Mr. Hale will start a brickyard.

Talladega.—The Talladega Land & Improvement Co., previously reported, will advertise for bids for building a hotel and 75 houses.

Talladega.—The Talladega Ice Co. has been formed to build an ice factory.

Talladega.—A sash, door and blind factory is to be built. The Talladega Land & Improvement Co. can give particulars.

Talladega.—It is stated that the Talladega Land & Improvement Co. will build a 40-ton charcoal furnace and are negotiating for the erection of a large coke furnace.

ARKANSAS.

Antimony City.—It is reported that Bessemer steel and iron works are to be built. B. F. Kennedy can give particulars.

Crystal Springs.—L. E. Arnold contemplates erecting a stamp mill 6 miles from Crystal Springs.

Bear.—C. C. Wood and Mr. Cooth have organized the Kirkwood Mining Co. They are developing gold mines.

Fort Smith.—Ward & Levy have received the contract to build 17 miles of railroad.

Fort Smith.—Plummer & Co., of Leavenworth, Kan., are building a fruit evaporating factory.

Fort Smith.—Several coal mines will shortly be opened near Fort Smith.

Fort Smith.—The Paris Land & Mining Co., capital stock \$65,000, has been incorporated to deal in and develop mineral lands, &c., with William M. Craven, Thomas Boles, Thomas Wittaker, A. B. Cox and C. R. Sadler as directors. Mr. Craven is president.

Helena.—The Helena Opera House Co. have organized with C. R. Coolidge as president; E. C. Horner, secretary, and Aaron Meyers, treasurer. Proposals are invited for building an opera house.

Hot Springs.—E. A. Douglas, P. W. Masters, and others are developing mining properties.

Hot Springs.—The Garland Mining Co. has been organized with J. M. Smith as president; E. F. Williams, vice-president; L. Leatherman, secretary, and William J. Little, treasurer. The capital stock is limited to \$5,000,000.

Hot Springs.—The St. Louis Cabalt Mining Co. has been organized to develop mines in Garland county, with John W. Gates as president; E. F. Williams, vice-president; James Hopkins, secretary, and William J. Little, Treasurer. The authorized capital stock is \$10,000,000.

Hot Springs.—The Main Mining Co. has been organized with T. J. Monaghan as president; Z. W. Lakenan, secretary; P. E. Green, treasurer, and J. D. Cromwell, superintendent. Have commenced developing mines.

Judsonia.—Whitmore & Summers will at once rebuild their saw mill, reported last week as burned.

Little Rock.—T. M. Gibson has purchased coal lands.

Little Rock.—J. W. Ward has received the contract to build a church to cost \$5,200.

Little Rock.—The Missouri Pacific Railroad Co., (office St. Louis, Mo.) are making surveys for their branch road to be built to Fort Smith.

Little Rock.—The Masons contemplate erecting a temple to cost about \$50,000.

Little Rock.—The Little Rock & Choctaw Railroad Co. contemplate beginning work on their road soon.

Newport.—The Pittsburg, Calamine & Newport Railroad Co. has been chartered at Topeka, Kan., to build a railroad from Pittsburg, Kan., to Newport. J. B. Hirsch is interested.

Pine Bluff.—Orlopp & Rusener have received the contract to build a church for the Methodists. It will cost \$12,000.

Texarkana.—W. H. McCarthy will build a hotel to cost about \$20,000.

Van Buren.—The Van Buren Ice & Coal Co., reported last week as organized, will build a 10-ton ice factory. Have purchased machinery.

FLORIDA.

Campbell.—A lumber mill has lately been erected by Mr. Seymour.

Campbell.—Silliman & Scarritt have started a saw and shingle mill.

Fernandina.—J. Marzyck has received the contract to build 2 docks for the Florida Improvement Co. They will cost about \$10,000.

Fort Myers.—An electric light plant is to be erected by Thos. Edison.

Jacksonville.—James Fitzgerald will erect a large three-story brick building corner of Hogan and Monroe streets.

Key West.—McDermott & Higgs have received the contract to build a large cigar factory on Pine Island.

Key West.—The cigar factory of Alexandro Rodriguez is being enlarged.

Longwood.—The wood-working factory previously reported as to be erected is being built by Mayer & Muddough.

Rock Springs.—John W. Gates, of Sparr, has bought the Davis saw mill, and will add new machinery.

Tallahassee.—A bill has been introduced in the legislature to incorporate the Dayton, Ocala & Cedar Key Railroad Co.

Titusville.—E. S. Wiley is organizing a company with a capital stock of \$50,000 to cultivate the poppy and manufacture morphine.

GEORGIA.

Abbeville.—A. K. Fisher desires correspondence with manufacturers of steam fire engines.

Americus.—Gas works are to be built shortly. John Winslow can probably give particulars.

Americus.—Work will soon begin on the water works, previously reported to be built. The mayor can give particulars.

Athens.—The Young Men's Christian Association will erect a building to cost about \$15,000.

Atlanta.—Boyd & Baxter have bought a site of five acres and will build a four-story furniture factory, 40x200 feet, to cost \$25,000. Plans are being prepared.

Atlanta.—The Pemberton Chemical Co. have increased their capital stock \$10,000.

Atlanta.—The Atlanta Construction Co. have received the contract to enlarge and improve Trinity Church at a cost of about \$15,000.

Atlanta.—The Empire State Electric Co., lately reported as incorporated by H. A. Pearce and others, of Boston, Mass., have bought a site and will erect their plant immediately.

Atlanta.—S. Inman and others have chartered the East Atlanta Land Co., capital stock \$600,000.

Cartersville.—Charles Haslet, of Pennsylvania, has leased a manganese mine, and will at once erect machinery to extensively develop it.

Cartersville.—The Etowah Iron & Manganese Co., previously reported, have secured sites for their projected furnaces, &c., and will, it is stated, begin work soon.

Cedartown.—Mr. Hickman is prospecting for manganese lands with a view to purchasing and developing them.

Hawkinsville.—J. L. Anderson has rebuilt his grist mill, previously reported as burned.

Madison.—T. C. Hampton & Co. have received a contract to grade part of the Macon & Athens Railroad.

Macon.—H. B. Erminger will put additional machinery in his candy factory to double its capacity.

Macon.—Toole & Ernest are erecting brick works.

Macon.—The Davenport Chemical Co. will move their factory from Americus to Macon.

Macon.—Brick and tile works are to be established.

Macon.—The Macon Grooved Picket Fence Co. has lately been organized to manufacture fences.

Mountaintown.—Messrs. Watkins, Jones and Cain, of Louisville, Ky., have purchased and are developing a gold mine.

Rockmart.—Bartow Lyle will erect a planing mill and has ordered machinery.

Rockmart.—A manganese mine is being opened by S. P. Pearce.

Rome.—A company has been organized to manufacture fences. Work on a factory will soon begin. The Rome Land Co. can give particulars.

Rome.—W. G. Welty, of Cleveland, O., and associates will build large works to manufacture iron bridges, nuts, bolts, &c. About \$40,000 will be invested.

Savannah.—The Pierce Patent Stone & Building Co. have organized with John J. McDonough as president; Tiney B. Thompson, vice-president; A. S. Delannoy, secretary and treasurer, and James S. Pierce, general manager. The company have their factory in operation.

KENTUCKY.

Augusta.—A \$2,000 stock company has been formed to bore for oil and gas.

Elkin.—A small distillery will be started by P. B. Elkin and F. P. Merritt.

Louisville.—The Old Deposit Gas & Mining Co. are developing oil lands near Louisville.

Louisville.—J. M. Atherton and others are organizing a company to build a large cotton factory. The capital stock will be \$250,000.

Louisville.—J. M. Clark & Co. will erect a \$7,000 warehouse on Second street.

Owensboro.—Packard & Grover will move their large shoe factory from Brockton, Mass., to Owensboro. Three hundred hands will be employed.

Scottsville.—An oil refinery is to be built. E. Zimmerman, of Cincinnati, O., president Chesapeake & Nashville Railroad Co., can give particulars.

Scottsville.—A planing mill is being erected.

Winchester.—A. C. Ferris, of New York, has leased 6,000 acres of land and will bore for oil and gas.

LOUISIANA.

Mansfield.—The DeSoto Coal & Iron Co., capital stock \$250,000, has been organized with Boling Williams, M. Ricks, H. C. Stokes, W. P. Temple, T. O. Burwell and others as directors.

Natchitoches.—The Red River Land Co., previously reported, will build a railroad from Natchitoches to the Texas & Pacific Railroad.

New Orleans.—The Pine Woods Distillation Co., capital stock \$50,000, has been organized with J. D. Lacey as president; E. Koch, vice-president, and J. B. Schmitt, secretary and treasurer. The company are erecting large works at the corner of Julia and Prieur streets.

Opelousas.—Joseph Block, Thomas H. Lewis, C. W. Duroy, Alphonse Levy, Isaac Roos and others will organize a company to establish a rice mill, oil mill, cotton compress, &c.

New Iberia.—A. & V. Meyer and Zuber-bier & Behan will build a large sugar mill on the Cora plantation.

Plaquemine.—The A. Wilbert's Sons Lumber & Shingle Co., capital stock \$42,000, has been chartered. Frederick Wilbert is president; Henry Wilbert, vice-president, and John Wilbert, secretary and treasurer.

Plaquemine.—The Plaquemine Iron & Brass Foundry Co., capital stock \$5,000, has been incorporated with Jacob McWilliams as president; Austin Hunt, secretary, and William Blackie, treasurer.

Springfield.—The Standard Iron, Charcoal & Chemical Co., of Nashville, Tenn., previously reported to locate a chemical, charcoal and furnace plant in Louisiana, will locate it at Springfield. 12,000 acres of timber land have been bought, and work will soon be commenced.

Springfield.—J. E. Dubois and J. M. Webb, of Birmingham, Ala.; S. A. Cunningham, of Nashville, Tenn., and others are building a large saw mill.

Washington.—The company previously reported as being formed to erect a cotton compress, has been organized with Philip Jacobs, Leon Wolff, A. Dupree, L. J. Smith, T. A. Clayton, J. O. Russell and T. C. Gibbons as directors. They have purchased a compress.

MARYLAND.

Baltimore.—Henry Wilcox, Charles Beck, E. D. Onion, John C. Weil, John W. Marshall and others will incorporate the Old Town Merchants' Hotel Co. to build a hotel on Gay street. The capital stock is to be \$75,000.

Baltimore.—E. Hoenerovogt, J. F. Wiessner and C. W. Wiessner have formed the J. F. Wiessner & Bro. Brewing Co., to operate the brewery of E. Hoenerovogt.

Baltimore.—The South Baltimore Car Works, previously reported, have awarded the contracts for their buildings to Philip Walsh & Sons for about \$50,000.

Centreville.—Gould & Whiting have received the contract to build a church to cost about \$7,900.

Cumberland.—Henry G. Davis, of Baltimore; Stephen B. Elkins, Thomas B. Davis, E. W. S. Moore, J. J. Read, William H. Gorman and William Pinkney White have incorporated the Baltimore & Western Railroad Co., to build a railroad from Cumberland to Hagerstown. The capital stock is \$2,000,000.

Catoctin Furnace.—The Catoctin Iron Co. have blown in another furnace.

Ceeresville.—E. A. Shriner & Son will re-fit their flour mill with roller machinery.

Elkton.—The Elkton Machine Works are being enlarged.

Federalburg.—Some new machinery will be put in the Federalburg Kindling Wood Factory.

Frederick.—C. L. C. Lampe is building a creamery.

Havre de Grace.—Vandiver & Murphy will mine sand.

Joppa.—A canning factory is being built near Joppa by Herman Lehman.

Longwoods.—William T. Elbin has purchased new machinery for a roller flour mill with a daily capacity of from 30 to 40 barrels.

Oakland.—The Oakland Coal & Coke Co. will build several coke ovens.

Washington, D. C.—Haliday & Wilson have received the contract to build a school on G street to cost \$22,487; and Columbus Thomas, the contract to build a school on Vermont avenue to cost \$22,200.

MISSISSIPPI.

Aberdeen.—The Memphis & Birmingham Railroad Co. (office, Birmingham, Ala.) contemplate building a branch road to Aberdeen.

Bogue Chitto.—The Keystone Lumber & Improvement Co., lately reported as building a saw mill, will move their planing mill and enlarge it.

Hattiesburg.—Kamper & Buschman will rebuild their saw and planing mill and grist mill reported in this issue as burned.

Natchez.—Thomas Reber will probably erect an electric light plant.

Vicksburg.—Curphy & Mundy have received the contract to erect a brick building to cost \$10,000.

NORTH CAROLINA.

Asheville.—C. F. Penniman & Co. have commenced work on a large warehouse, 40x160 feet.

Asheville.—Two companies have been formed to build street railways.

Asheville.—The Asheville Improvement & Street Railroad Co. will build a street railroad.

Cullasaja.—H. S. Lucas has erected a building to wash, crush and prepare ore for shipment.

Forest City.—A sash, door and blind factory is being erected by Turner & Hayes.

Graham.—A new saw mill has been erected by W. G. Wilson.

Hickory.—A stock company is being organized to build a \$20,000 hotel.

Indian Town.—Stevens & Bray will rebuild their grist mill and gin reported last week as burned.

Lovelady.—Hoke, Hunter & Turner have put their new shuttle-block factory in operation.

Murphy.—Bowers, Porter & Smith will, it is said, build a hotel to cost about \$30,000. Have purchased a site.

Murphy.—It is reported that a company has been organized to reopen the Wellburn Hill gold mine, 12 miles from Murphy.

Salisbury.—The Yadkin Mining & Milling Co. has been organized with D. H. Emory, of Baltimore, Md., as president and treasurer; H. G. Tyson, secretary, and John Jacobs, superintendent. The capital stock is \$24,000.

Salisbury.—Beall & Co. contemplate starting a tobacco factory, but have not as yet perfected arrangements.

Statesville.—The Atlantic, Tennessee & Ohio Railroad, A. B. Springs, Charlotte, president, is to be extended from Statesville to Taylorsville. Work will be commenced soon.

Winston.—The Winston Electric Light & Motive Power Co., previously reported, will shortly build an electrical street railroad.

SOUTH CAROLINA.

Abbeville County.—It is stated that Malcolm Erwin and others will start a spoke and handle factory.

Charleston.—The Charleston Gas Co. contemplate erecting an electric light plant.

Charleston.—The Charleston Electric Light Co. have asked for permit to build gas works.

Chester.—Wright Bros. have received the contract to grade the Georgia, Carolina & Northern Railroad from Chester to the North Carolina State line.

Beech Island.—B. D. Lamar and G. D. Landum will develop a chalk mine.

Bennettsville.—C. S. McCall and J. F. Everett are organizing a company to build a cotton factory. About \$50,000 have been subscribed.

Bishopville.—A broom factory will be established soon.

Lancaster.—Machinery will be erected at the Stevens gold mine near Lancaster.

Laurens.—Mr. McRay has purchased 30 acres of mineral land and will open corundum mines.

Mayesville.—The saw mill of C. P. Mallett, lately reported as burned, will be rebuilt.

Waterloo.—J. T. Harris is erecting a gin-nery.

TENNESSEE.

Athens.—The Athens Mining & Manufacturing Co. will build a railroad to ore fields east of Athens.

Blountville.—D. J. Hickman and John W. Swadley will each develop iron ore mines near Blountville.

Bolivar.—Austin Miller will receive proposals until May 23 for the erection of a large asylum, and for a system of water works and steam heating.

Bristol.—It is reported that large iron works are to be built.

Chattanooga.—The Walden Ridge Coal Co. will, it is said, build 50 more coke ovens.

Chattanooga.—John P. Richardson, of New Orleans, La., is making efforts to secure the removal of a large manufactory to Chattanooga.

Chattanooga.—D. M. Stewart, of Cincinnati, O., manufacturer of insulators and tips for electric lamps, contemplates moving his factory to Chattanooga.

Chattanooga.—The boiler works of Friedel & Strable will be enlarged.

Chattanooga.—It is rumored that Mr. Simons, of New Orleans, La., will organize an incandescent electric light company.

Chattanooga.—J. C. Crimmer will build a mattress factory on Whiteside street.

Chattanooga.—The Central Elevator Co., capital stock \$200,000, has been incorporated by T. H. Cheek, Albert Eakin, J. L. McCollum, J. C. Shafner, W. A. Willingham and others. The company will purchase and enlarge the grain elevator of Eakin & Cheek and add machinery for cleaning grain.

Chattanooga.—The Southern Natural Gas & Oil Co. have purchased machinery to drill wells.

Chattanooga.—The Chattanooga Coffin Co., capital stock \$50,000, has been chartered by L. E. Goldstone, of Chattanooga, and F. C. Cashard, S. Newhouse, J. Newhouse and A. Myer, of Cincinnati. Will build a large factory at once.

Cleveland.—There is talk of a fertilizer factory being erected.

Cleveland.—A. C. Green is making arrangements to erect an electric light plant.

Columbia.—A creamery is to be established by John C. Black.

Fayetteville.—The Duck River Valley Railroad Co. will move their repair shop from Columbia to Fayetteville.

Greenville.—The Greenville Tobacco Manufacturing Co. will build a large factory this season.

Hendersonville.—W. S. Callender wants to purchase machinery for getting out cooperage supplies.

Johnson City.—A manganese mine will be developed.

Knoxville.—The Carolina, Knoxville & Western Railway Co. has been incorporated to build a road from Knoxville to Greenville, S. C., 150 miles. C. H. Phinizy, of Augusta, Ga., is president; C. Powell, vice-president; F. A. Frierson, secretary, and H. B. Branner, treasurer.

Manchester.—L. D. Hickerson, Sr., and L. D. Hickerson, Jr., have bought 5,000 acres of timber land near Manchester and will build a saw mill.

Memphis.—Napoleon Hill is president; J. A. Van Hoose, first vice-president and general manager; T. J. Latham, second vice-president, and T. A. Lamb, secretary and treasurer of the Chickasaw Land Co., reported last week. The company have purchased 3,175 acres of land near Memphis and will lay out a town. The Memphis Greenwood & Prospect Park Railroad Co. has been formed to build a dummy railroad from Memphis to the lands of the company.

Morristown.—F. Randolph Curtis, Arthur C. Chester Master, W. D. Kenner, W. C. Anderson and J. S. Churchill have chartered the Hawkins Marble Development Co.

Morristown.—The Morristown Land & Improvement Co. has been organized by J. C. Churchill, W. D. Kenner, W. C. Anderson, F. Randolph Curtis and Arthur C. Chester Master.

Morristown.—The Morristown Mill Co. have put new boilers in their flour mill and contemplate putting in other machinery to increase their capacity.

Mt. Pleasant.—The Methodists will rebuild their church lately burned.

Nashville.—The McLaughlin Portable Electric Light & Power Co. has been char-

[CONTINUED ON PAGE 494.]

Fire Alarm and Police Patrol Telegraph Systems.

The first fire-alarm telegraph system in which the electric current was made to telegraph the outbreak of a fire by operating an audible signal was introduced in Boston in 1852. In that system the circuit controllers



FIG. 1.—Outside View of Combination Fire Alarm and Police Patrol Box, with Door to Patrolman's Signaling Key and Releasing Lever.

were located in boxes, called signal-boxes, in various parts of the city, and were constructed so as to represent different numbers corresponding to the numbers of the signal-boxes. The keys to the signal-boxes were given into the charge of responsible persons in the neighborhood, the purpose being that on the occurrence of a fire some authorized person should open the nearest signal-box



FIG. 2.—Inside View of Combination Fire Alarm and Police Patrol Box.

and operate the circuit controller. This would cause a definite alarm to be sounded on tap-bells or gongs at a central station, which alarm would afterward be repeated by hand over a circuit including large electro-magnetic bells located in bell towers. Substantially this system is the one most widely used in this country at the present time.

Since then, however, and notably since the introduction of the telephone, with its multitude of wires, certain grave defects in this and other systems have been brought to light. The importance of these defects is emphasized from time to time by the occurrence of large and destructive fires, the magnitude of which is directly traceable to the imperfect action of the fire-alarm telegraph system employed to give notice of danger.

To provide means of securing immediate notices of fires, thereby securing the

efficient action of its fire guardians, it is, of course, necessary to use our most rapid and trustworthy agent, electricity. The credit of combining electricity and mechanism to accomplish these requirements is said to be due Mr. L. H. McCullough, electrician to the Richmond Fire Alarm Co., of Richmond, Ind., the manufacturers and proprietors of the system of fire-alarm and police patrol telegraphy which we illustrate and describe to-day.

Fig. 1 represents the combination fire-alarm and police patrol box with the front door closed and the police or side door open, showing the key for signaling purposes and the lower end of the lever for releasing the police key; also police key in lock above the door for the purpose of calling the police or patrol. The police key cannot be removed by a citizen sending in a police call, but is released by the police or patrol upon their arrival, they only having keys to the lower door, giving them access to the releasing lever.

Upon opening the front door of the box to turn in an alarm of fire, a second door is found, which securely protects the clock-work enclosed within. A button projects through an opening in the inside door and above the button is the word "Push." An alarm is turned in by a slight pressure on the button, which sets in motion the clock-work of the box the mechanism of which opens and closes the circuit a definite number of times. Each time the circuit is opened a stroke on all the gongs in the circuit is given, the number of strokes corresponding to that of the signal-box. Thus, a signal from box 23 is made up of two strokes and an interval followed by three strokes. The signal is repeated four times with a sufficient interval between each two to render it intelligible. Keys to the inside doors are held by officials having the fire-alarm apparatus in charge.

Fig. 2 represents the combination fire-alarm and police patrol box with the inside

case of an accident a surgeon may accompany the patrol wagon; or should more than the usual number of police be required, as in case of a riot or other disturbance, the fact may be instantly communicated to headquarters.

It should not be overlooked that both the fire-alarm and the police patrol signals may be turned in at the same time from the same box; or a fire-alarm may be sent from one box and a police patrol signal from another, each signal being received at its proper station without interfering with the other.

Fig. 3 shows the general outside appearance of the ordinary straight fire-alarm box as seen when placed in the public streets. This is fitted with an extra quality double



FIG. 3.—Outside View of Ordinary Straight Fire Alarm Box.

trap lock, made so that when the key is inserted and the door unlocked, the key cannot be removed until released by a master key, kept by the chief or his assistants. As all keys given out to citizens are numbered, each person becomes responsible for alarms in which his key is used.

Fig. 4 shows the inside view of the ordinary straight fire-alarm box. The outside door of the box when open gives access to the fire-alarm button, as in the combination signal-box already described. The clock-work and circuit controller are also similar to those in that box.

Fig. 5.—The instrument represented in Fig. 5 consists of a self-inking register, in



FIG. 4.—Inside View of Ordinary Straight Fire Alarm Box.

combination with the 8-inch, 10-inch, 12-inch, 16-inch or 18-inch electro-mechanical spring gong for engine, hose and water works pump houses, each with its own magnet, and acting entirely independent of each other, so that if the gong should accidentally miss a blow the register will not fail to make the right record.

Fig. 6.—The automatic repeater is a model of simplicity and accuracy, and is not liable to get out of order.

Fig. 7.—These small spring gongs are used for the residences and offices of the mayor, chief of fire department and other city officials.

Fig. 8.—Electro bell-tappers are used in places when loud alarms are not necessary,



FIG. 5.—Combination Electro-Mechanical Gong and Self-Inking Register for Engine Houses.

as in the offices and residences of the mayor and chief of fire department. When alarms are given they ring automatically.

Cities agitating the question of adopting a system of fire-alarm and police patrol telegraph, or ordinary fire-alarm, or those having other systems and wanting extras, will find it to their advantage to correspond with the Richmond Fire Alarm Co., of Richmond, Ind., who will mail catalogues,

and will call and make a public exhibition of their systems in practical operation, showing their many good features.

If you are not already a subscriber to the BALTIMORE MANUFACTURERS' RECORD, send us \$3 and you will receive it regularly for one year, or six months for \$1.50.

MINING NOTES.

By T. K. BRUNER, Raleigh, N. C.

IRON WEALTH OF NORTH CAROLINA.

The day is not far distant when we may expect full development of the iron deposits

In the counties of Halifax and Granville occurs considerable beds of hematite. This ore is known as specular, and contains some magnetic grains disseminated through the mass. It assays up to 60 per cent. metallic iron, with some phosphorus. At other localities the ore is highly magnetic. All these ores are of remarkable purity and are adapt-

some thirty miles." The ore is a titaniferous granular magnetite. There is a second parallel range a short distance west of this, and there is still another belt running parallel to the former and three miles from it, called the Highfield or Shaw outcrop. The vein is 6 feet thick of good ore. "In a run of eight hundred yards there are apparently two hundred thousand tons above water level in the one six-foot bed." These ore beds have not been fully explored, and there is much ground in the county not yet examined.

WESTERN ORE BEDS.

The counties of Gaston, Lincoln and Catawba present a grand range of iron ores, mostly magnetic, with more or less hematite. Prof. G. B. Hanna, of Charlotte, has made a study of these ranges and can supply reliable data. There are a large number of beds ranging from 3 to 10 feet and upwards to 18 and 20 feet in thickness. These ores have been worked to some extent and with promise for permanent operations in the future. In an article of this kind only bare mention of the best known localities can be made. The leading deposits are known as the Big Ore Bank, Brevard, Robinson, Morrison, Forney, Barringer, Yellow Ridge Bank, Ferguson, Ellison and Castner, Mountain Ore Bank, Ormond Ore Bank, and many others of less note. There are probably as many as five furnaces already built on this range of iron ores.

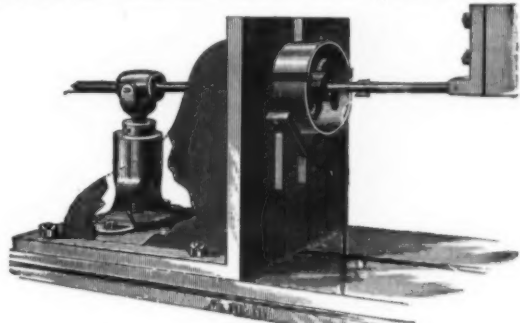
The ores of Yadkin, Surry and Stokes counties are found along the foothills of the Pilot Mountain range. In character they are granular and magnetic. These ores are generally very pure; phosphorus is wholly wanting, and the iron made from them has

Furnace Slag in Brick-making.

Until within a few years the refuse from blast furnaces, the slag, was a cumbersome nuisance, and it was not until some inventive genius discovered that the proportion present in this refuse, together with the weight of the extraneous matter, silica, &c., would make such weights, forcing the value up to a few dollars per ton, that brick-makers discovered a fine substance for mixing with low grade clays; and though the prices slag will bring and the low price of brick nearly universally prevailing precludes the possibility of combining the two with profit in brick manufacture, nevertheless, the slag, finely pulverized and mixed with about ninety per cent. of finely-tempered clay, does, indeed, produce an extraordinary fine quality of brick; and when we add, say, five per cent. more to the clay, one of the best sewer pipe can be made, for besides being absolutely impervious to the action of both the alkalis and acids found in sewerage, a pipe may be produced that is nearly equal to cast iron to stand pressure. Its crushing strength also being very large, renders it very desirable for deep sewers where ordinary sewer pipe cannot bear the superincumbent weight of soil.—Brick, Tile and Pottery Gazette.

Key-way Cutting Machine.

Oefinger's Key-way Cutting Machine, shown in the cut, is an attachment to be placed upon a planer for cutting key-ways very accurately and rapidly. Its capacity is unlimited as to length of key-ways to be cut. Work placed in the center rest can be



KEY-WAY CUTTING MACHINE.

a good reputation. The beds are from a few inches up to 10 or more feet in thickness. There are more than a dozen known localities in these counties, any of which are of sufficient strength to justify working.

In Burke and Caldwell counties may be found many valuable beds of limonite. One near Hickory is six feet thick. In Caldwell the deposit on Gun Powder creek is reported as very large. Iron was made here 35 or 40 years ago. There are outcrops in Caldwell traceable for several miles in length, and with a thickness of from one to eight and ten feet. These beds also occur in McDowell and Watauga counties, and in Mitchell and Ashe. In Mitchell the famous Cranberry ore bank at once claims attention. It is fifteen hundred feet in length and is from two to eight hundred feet wide. The ore is a remarkably pure magnetite, and produces a soft, tough iron. The product of the Cranberry furnace always brings a price in advance of the market. There are numerous deposits of similar ore in Mitchell and in Ashe. Some of the more prominent beds in the latter county have been traced for miles in length. In fact, this whole tramontane region may be termed as iron producing, since not a county is without considerable ore beds. Cherokee is remarkably rich in limonite ores, and the same might be said of other counties. The detail of much of the foregoing may be found in Kerr's Geology of North Carolina and in other publications distributed by the Department of Agriculture.

Buy "THE NEW SOUTH." Handsomely bound in cloth. Price \$2.50.

raised and lowered at will to any desired height, and outside bar support can be adjusted so as to reach to the extreme height of angle plate. Thus it will be seen that a key-way can be cut through very large work equal in diameter to twice the height of angle plate.

The angle plates are made with tongue at the bottom to fit central slot in planer platen, which insures accuracy. Angle plates are made extra heavy and will not spring. When not in use for cutting key-ways the center rest can be taken off and the angle plate used for ordinary work, thus serving a double purpose.

J. L. Oefinger, box 849, Stamford Conn., is the manufacturer, and will give any further information desired.

CORRESPONDENCE relating to the manufacturing, mining, lumbering and all other material interests of the Southern States is solicited. Reaching so many capitalists in all parts of the United States seeking profitable investment in the South, the MANUFACTURERS' RECORD offers an excellent chance for the people in that section to place the advantages of each locality before those likely to be interested. We will take great pleasure at all times in telling what has already been accomplished in the South, and showing up the opportunities of doing still more.

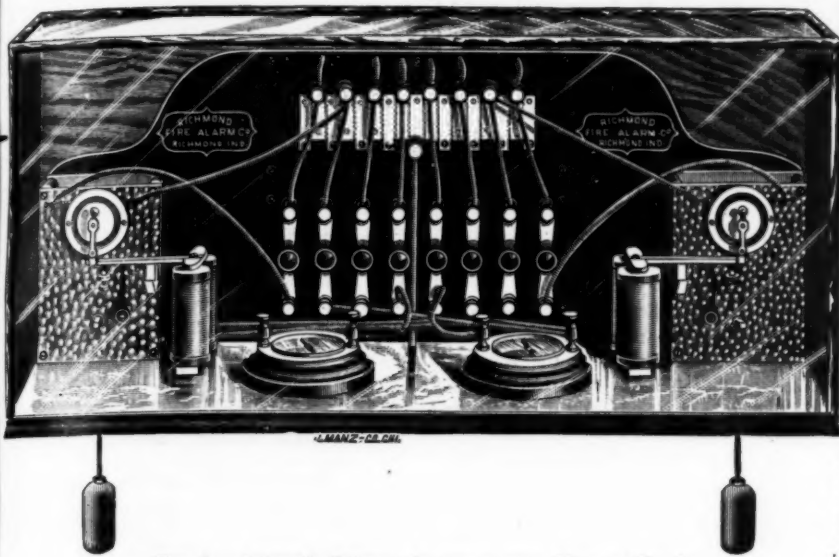


FIG. 6.—Automatic Repeater for two or more Lines or Circuits.

of the South. It has already begun in certain parts of the South and it will spread in all directions. The object of this sketch is not for speculation, but intended for a more practical purpose—to serve as an index to

ed to the manufacture of steel.

CENTRAL ORE BEDS.

Coming nearer the center of the State, the ores of Johnston, Wake, Chatham and Orange counties claim attention. In the first two counties the ores are limonite, and are not so valuable as the hematites. The Buckhorn Mine, near the county line between Chatham and Hornet, is one of the largest deposits in middle North Carolina. It is more than 30 feet thick. The ore is specular, and is said to carry a large percentage of manganese "and the capacity to produce spiegeleisen without admixture of other ores." Besides this large deposit, there are a number of similar deposits, but smaller in size, in the vicinage. There are also limonites and hematites scattered in various parts of Chatham of more or less value.

The black band or ball ore of the coal measures possess merit in a high degree. There are argillaceous and calcareous carbonates of iron, and are co-extensive with the coal on Deep river. Emmons says of this ore: "It contains 33 per cent. of metallic iron; the surface ores being altered contain 50 per cent." There are several seams of this ore from 16 inches to 3 feet in thickness.

The Evans vein, near Gulf, is a hematite and is 6 feet thick.

Ore Hill is the most noted deposit in Chatham. The ore is limonite and hematite, and there are a number of veins of rather large proportions, ten feet and upwards. This material is easily smelted; taken in connection with the vale ore, which is a successful flux, admirable conditions for advantageous iron manufacture is furnished.

The most valuable bank of iron in Orange is near Chapel Hill. It is a dense hematite and is from 7 to 25 feet thick. There are several other veins of like character in the county which have the advantage of being in close proximity to the University Railroad, which furnishes ample transportation facilities.

The iron ores of Montgomery and Randolph counties belong, geologically speaking, to the ranges above described. There are several workable beds in these counties.

Guilford county is rich in iron. "One of the most remarkable and persistent ranges of iron ore in the State crosses the county of Guilford in a northeast and southwest direction, passing about ten miles northwest of Greensboro, near Friendship. It extends from the headwaters of Abbott's creek, in Davidson county, entirely across Guilford to Haw river, in Rockingham, a distance of



FIG. 7.—Electro-Mechanical Chief's Gong.

the leading natural sources of iron in North Carolina.

EASTERN ORE BEDS.

The iron ores have a very large range in North Carolina. Beginning in the eastern part of the State, we have the so-called



FIG. 8.—Bell Tapper for Offices of Chief, Mayor and other officials.

"bog" ores, which are beds of clayey and sandy brown ore. The first considerable bed of this character is found in Nash county. This material was used during the wars of 1812 and 1861-65, and is said to have a metalliferous value of 42 per cent. of iron. Other beds of like character occur in Pender and Duplin counties.

(CONTINUED FROM PAGE 491.)

tered by James McLaughlin, Julius Hirshfeld, Frank Miller, William W. Ker and George Smyth.

Nashville.—The State Water Gas Co., previously reported, has been organized with Vinet Donelson as president; G. W. F. Price, vice-president; George W. Wilkes, secretary, and John W. Hunter, Jr., treasurer.

Nashville.—The North Nashville Street Railway Co. has been incorporated by J. G. Jones, Theodore Selfried, A. W. Wills, Robert L. Morris, J. S. Pilcher, George March and others.

Nashville.—The Alexander Iron Co., previously reported, has been organized with J. H. Z. recor as president; Malone Wheelless, vice-president; John A. McEwen, secretary, and John F. Alexander, general manager. The capital stock is \$1,000,000. The company will at once erect malleable iron works with a daily capacity of about 30 or 40 tons.

Nashville.—John C. Brown, James M. Head, Benton McMillin, William Morrow, D. B. Cooper, W. D. Spears and R. B. Worthington have chartered the Sequatchie Coal & Iron Land Improvement Co.

Nashville.—The First Christian Church have purchased a site on Vine street for their new church, previously reported. J. W. Bonner can give particulars.

Shelbyville.—The name of the natural gas company recently reported is the Shelbyville Natural Gas & Oil Co. The capital stock is \$25,000.

St. Joe.—D. Shannahan & Co., of Louisville, Ky., have received the contract to grade the extension of the Nashville & Florence Railroad from St. Joe to Florence, Ala.; also the branch road to be built to West Point, Tenn.

Tip'on.—E. W. Standridge is developing a silver mine.

Trenton.—The Tennessee Central & Alabama Railroad Co. has been chartered by Horace Scott, W. T. Glasgow, S. Hill, W. L. Granberry, James L. Gaines, R. Z. Taylor and T. J. Hoppel. The company propose to build a railroad from Trenton to Florence, Ala.; also northward from Trenton to the Mississippi river.

Tullahoma.—Martin Yost will enlarge the capacity of his barrel factory.

Union City.—The city has decided by a popular vote to issue the \$15,000 of bonds, previously reported, to build a court-house and jail.

Westmoreland.—William Fidler will build a saw and planing mill.

Westmoreland.—A saw and planing mill is being erected by J. C. Rodemer.

TEXAS.

Beaumont.—A company is being organized to build water works.

Burnet.—A. R. Johnson, J. Cole, J. R. Hudson and others have chartered the Texas Telephone & Telegraph Co., capital stock \$10,000.

Dallas.—Huey & Philp will erect a \$6,000 brick building.

Dallas.—George F. Alford, of Dallas, and J. H. Langley, of Boston, Mass., contemplate incorporating the Dallas & Archer Coal & Iron Railway Co., to build a railroad from Dallas to Archer county, to open up mineral lands.

El Paso.—S. L. Carter and others, previously reported as to organize a company to erect a powder factory, have incorporated the Union Powder Co.

El Paso.—Parties from Denver, Col., are prospecting with a view to erecting sampling works.

Fort Worth.—The Masons will build a large temple.

Fort Worth.—The Fort Worth Street Railway Co. contemplate building another line of road.

Fort Worth.—The First Presbyterian Church will erect a new edifice to cost about \$25,000 or \$30,000.

Galveston.—The contract for the jetty work in the Galveston harbor has been awarded to A. M. Shannon & Co. \$280,000 have been appropriated for the work.

Greenville.—The Texas Compress Association, S. D. Rainey, Jr., secretary, have purchased a 90-inch Morse compress.

Greenville.—The capital stock of the company previously reported as formed to build a street railroad is \$50,000. The mayor can probably give information.

Greenville.—S. B. Tainter, of Chicago, Ill., speaks of erecting an ice factory of not less than 15 tons capacity.

Greenville.—Blades & Sheppard have contracted to erect a large building for Schiff, Reeves & Scharitz. It will be 84x140 feet and will cost about \$11,000.

Henrietta.—The city council will issue bonds to secure water for fire purposes.

Houston.—The capacity of the oil mill reported last week as to be rebuilt by the Howard Oil Co. will be 250 tons of seed daily. Contracts for buildings and machinery have been let.

Mangum.—The county commissioners are negotiating for the erection of a court-house and jail.

Mariensfeld.—Mr. Peters will build a flour mill.

Marshall.—R. E. Bradford & Co. will build a three-story addition to their hotel, 60x80 feet.

Palestine.—The Palestine Electric Light Co. will enlarge their plant.

Paris.—The city council have decided to extend the water mains about 5 miles.

Rusk.—It is reported that St. Louis capitalists are purchasing large tracts of ore and timber lands with a view to building one or more iron furnaces.

San Antonio.—E. Stevens, Sr., will erect a \$12,000 building on Market street.

San Antonio.—The city has decided by a popular vote to spend \$150,000 in building a city hall, jail, &c.

Taylor.—The Taylor Water Co. will spend about \$80,000 in extending their water mains.

Tyler.—The improvements to be made to the water works reported last week as purchased by L. B. Fish and associates will cost about \$35,000.

VIRGINIA.

Balcony Falls.—The Balcony Falls Co., previously reported as incorporated, has been organized with A. S. Buford, of Richmond, as president, and J. D. H. Ross, Lexington, secretary and treasurer. The authorized capital stock is \$2,500,000. The company will start a town, build furnaces and manufacturing, &c.

Bonsack's.—A zinc and silver mine is being developed by J. O. Hanes and Mr. Lee.

Buchanan.—A canning factory will be started by Henry E. Boyd.

Graham's Forge.—D. P. Graham has purchased the iron ore on part of F. Carter's property and will begin mining it at once.

Lexington.—A cigar factory will be started by parties from Lynchburg.

Lexington.—The Lexington Manufacturing Co. have increased their capital.

Lynchburg.—The Virginia Nail & Iron Works Co. have let the contract for the iron work of their new furnaces, previously reported, to the Glamorgan Iron Works.

Lynchburg.—Winifree Sons & Maupin have put \$1,000 of new machinery in their tobacco factory and will put in a new boiler at a cost of \$1,200.

Norfolk.—A company is being organized to purchase the Dismal Swamp Canal and build a railroad along its banks from South Mills, N. C., to Norfolk.

Patrick County.—Thomas T. Munford, G. A. Sensens and Henry J. Lamarche have bought about 40,000 or 50,000 acres of timber and mineral lands which they will develop.

Portsmouth.—A. W. Hayden, of Brockton, Mass., is prospecting with a view to starting a large shoe factory.

Portsmouth.—W. W. Bennett will erect a large three-story brick building. The cost, including ground, will be \$21,000.

Pulaski City.—The Pulaski Iron Co. are erecting several additional ore washers.

Pulaski City.—The Lake Spring Land & Improvement Co., has been organized with G. V. Litchfield as president; D. S. Pierce, secretary, and W. H. Bramblitt, treasurer. The company has the privilege of building gas and water works. The capital stock is limited to \$100,000.

Richmond.—Bills have been introduced in the legislature to incorporate the Radford Land & Improvement Co.; the Aldie & Leesburg Telephone Co.; the Virginia & North Carolina Wheel Co.; the Bermuda Hundreds Construction Co.; the Dinwiddie & Brunswick Lumber Transportation Co.; the Potomac & Alleghany Railroad & Improvement Co.; the Central Virginia Telephone Co.; the Rich Valley Railroad Co.; the Albemarle Telegraph & Telephone Co.; the Pamunky Mining & Navigation Co.; the Hillsboro Water Co.; the Chesterfield & James River Improvement Co., to build a railroad from the coal fields at Midlothian to Bermuda Hundreds, and with John Dunlop, Walter Hamilton, William T. Washburn, P. N. Rhodes and George Bell as incorporators—the capital stock is not to exceed \$1,000,000; the Kent Ridge Coal & Iron Co.; the Buck Horn Iron & Improvement Co.; the Danville, Wytheville & Southwestern Construction Co.; the Magnetic Mining Co.; the Byrd Creek Iron Co.; the Washington & Western Railroad Co.; the Chester Clay Manufacturing Co., and the Mineral-Belt Steam Tramway Co.

Roanoke.—The contract to build the church for the Presbyterians, previously reported, has been awarded to the Lexington Manufacturing Co., of Lexington.

WEST VIRGINIA.

Caldwell.—John T. Dixon and John Driscoll have started two saw mills.

Piedmont.—The West Virginia Central & Pittsburgh Railway Co. will extend their road from a point east of Davis to Charleston. Surveys are now being made.

Ronceverte.—A saw mill has been started by John Driscoll and John T. Dixon.

Ironton, O.—The Hanging Rock Stove Co. contemplate moving their foundry to some point in the South.

BURNED.

Baltimore, Md.—The ice house and machinery of Jacob Frederick & Son.

Baltimore, Md.—The slaughter houses and machinery of John Hansen and Henry Kraus.

Cherokee Bay, Ark.—The saw mill of P. Goetz.

Covington, Ky.—The iron foundry of Martin & Reynolds; loss \$25,000.

Covington, Ky.—The sash factory of Clemens Hellman; loss about \$9,000.

Deerfield, Va.—The saw mill of William H. Clare.

Gloster, Miss.—The saw mill of T. J. Cole; loss \$2,500.

Hattiesburg, Miss.—The saw and planing mill and grist mill of Camper & Bushman; loss \$15,000. Will be rebuilt at once.

Keyser, N. C.—The saw mill of H. P. Guess & Co.; loss \$600.

Louisville, Ky.—The large warehouse of Brown, Johnson & Co., and the grain elevator of Strater & Bros.; loss \$180,000.

Muscadine, Ala.—The saw and planing mill of J. C. Jackson; loss \$4,000.

Lauraville, Md.—The flour mill of Larkin Read, near Lauraville; loss \$8,000.

New Haven, Ky.—The distillery of the J. M. Atherton Co.; loss \$30,000.

Owensboro, Ky.—The large distillery of the E. C. Berry Distilling Co.; loss \$25,000.

Prosperity, S. C.—The gin of Wheeler & Mosely.

Roanoke, Texas.—The flour mill of W. H. Lewis; loss \$12,000.

To Develop Mineral Lands.

DALTON, GA., April 27, 1887.

Editor Manufacturers' Record:

A company has recently been formed here bearing the title of the Southern Queen Mining & Prospecting Co., for the purpose of developing mineral lands in the Southern States. Officers are: I. W. Barrett, president; Robt. Herron, vice-president; F. T. Hardwick, treasurer; D. R. McKamy, secretary; S. P. Maddox, attorney.

W. W. VAN NESS, JR., Min. Eng.

To Build Water Works.

DECATUR, ALA., April 28, 1887.

Editor Manufacturers' Record:

Inman & Co., of New York city, will put in water works system at this place. Agrees to deliver 5,000,000 gallons per day at start.

W. E. FOREST.

Pressed Brick Works.

WINCHESTER, KY., April 27, 1887.

Editor Manufacturers' Record:

We will commence at once to make fine pressed brick at Ford to ship to all points. The dirt that we have got will dig 15 feet deep. The Asher Bros. are building large band saw mill here as good as any in the State.

J. L. B. WHITE & BROS.

New Machinery.

LYNCHBURG, VA., April 29, 1887.

Editor Manufacturers' Record:

We have put in about \$1,000 in new machinery and are having a boiler built at a cost of \$1,200. WINFRE SONS & MAUPIN.

Saw Mill.

ISBELL, ALA., April 25, 1887.

Editor Manufacturers' Record:

We have put up a saw mill near this place.

GIBSON & BEHL.

Enlarging Furniture Factory.

JOHNSON CITY, TENN., April 27, 1887.

Editor Manufacturers' Record:

We are increasing the size of our factory, which has been running as the Johnson City Furniture Factory since May 1, 1886. We have this week put in more new machinery and are getting more from Grand Rapids next week. We shall probably enlarge again in the near future.

JOHNSON CITY FURNITURE CO.

TEXARKANA, ARK., April 28, 1887.

Editor Manufacturers' Record:

W. H. McCartney is erecting a large hotel on the ground formerly occupied by the Cosmopolitan Hotel costing about \$20,000.

E. A. SCHICKER.

Will Rebuild Saw Mill.

JUDSONIA, ARK., April 25, 1887.

Editor Manufacturers' Record:

We were burnt out two weeks ago. We are going to rebuild as fast as we can. Our machinery was considerably damaged. Size of mill, 24x80, 2 stories. Capacity 25 M per 10 hours. Engine 40 horse-power. Make shingles, laths, flooring and siding. We will be running in six weeks.

WHITMORE & SUMMERS.

Roller Flour Mills.

EASTON, MD., April 29, 1887.

Editor Manufacturers' Record:

We are about to build a roller flour mill of from 40 to 50 brls. capacity, the contract for same having been given to Wolf & Homaker, of Chambersburg, Pa. Wm. T. Elbin, of Longwood, in this county, has also given a contract to the same firm for a mill of a capacity of 30 to 40 brls. per day, (24 hours.)

JOHN W. BARBER & CO.

LITTLE ROCK, ARK., April 28, 1887.

Editor Manufacturers' Record:

We contemplate beginning construction in earnest very soon, the first twenty miles out of Little Rock now being located and right of way cleared. We expect to build to the Fouché Le Fave this year.

LITTLE ROCK & CHOCTAW RAILROAD CO.

ROCK HILL, S. C., April 30, 1887.

Editor Manufacturers' Record:

I will start a smoking tobacco factory instead of cigar. It will be on a small scale.

GEO. A. COWAN.

WINSTON, N. C., April 29, 1887.

Editor Manufacturers' Record:

The Winston Electric Light & Motive Power Company, organized March 30, 1887, with a capital of \$30,000. Plant consists of 80 horse-power, 2 dynamos, 1 for 45 arc lights, and 1 for 500 incandescents. We put in the Brush arc and Swan Incandescents, and intend shortly to put street cars operated by electric motive power on our streets.

D. H. STARBUCK, Pres.

New Machinery.

FAYETTEVILLE, N. C., April 29, 1887.

Editor Manufacturers' Record:

The improvements in process consist of the addition of a new cloth room to our mill. We have recently added drawing frame slubber and other new machinery.

BEAVER CREEK & BLUFF MILLS,
H. W. LILLY, Treas.**Building Paraffine Works.**

PARKERSBURG, W. VA., April 29, 1887.

Editor Manufacturers' Record:

We are constructing paraffine works at this point.

CAMDEN CONS. OIL CO.

Doubled Capacity.

HIGH POINT, N. C., April 30, 1887.

Editor Manufacturers' Record:

We have put in two new 40 horse-power boilers and are now putting in an entire new set of sash machinery, which will give us two sets complete and will double our present capacity, enabling us to turn off 100 pairs sash and 100 doors daily.

SNOW & DALTON.

Machinery Wanted.

HENDERSONVILLE, TENN., April 30, 1887.

Editor Manufacturers' Record:

I am going into the business of getting out cooperage supplies, and want the address of some firms who make such machinery.

W. S. CALLENDER.

Receiving Bids for Boilers.

DURHAM, N. C., April 29, 1887.

Editor Manufacturers' Record:

We are asking for bids on 3 new boilers (tubular). BLACKWELL'S DURHAM

CO-OPERATIVE TOBACCO CO.

DUNHAM, ALA., April 28, 1887.

Editor Manufacturers' Record:

We have closed contract to grade the extension of the East Alabama Railway to Roanoke, Ala., a distance of 17½ miles; to be completed by Sept. 1, 1887.

PERKINS & CO.

Will Build Iron Works.

NASHVILLE, TENN., April 25, 1887.

Editor Manufacturers' Record:

The Alexander Iron Company has effected its organization, capital \$1,000,000, and will erect at once works for manufacturing iron at Nashville, Tenn. J. H. Zarecor is president; Malone Wheelless, vice-president; Jno. A. McEwen secretary, Mechanics Bank, treasurer, and Jno. F. Alexander, general manager.

JOHN F. ALEXANDER.

Will Build a Railroad.

ATHENS, TENN., April 26, 1887.

Editor Manufacturers' Record:

The Athens Mining & Manufacturing Co. will build a railroad from this place to the finest ore fields in the South, which are just east of this place. They will also expend \$500,000 in manufacturing enterprises on the property here laid off for a city.

R. J. FISHER, Gen'l Manager.

Will Erect Cotton Compress.

ALEXANDRIA, LA., April 23, 1887.

Editor Manufacturers' Record:

We have organized the Rapides Cotton Compress Co. for the purpose of erecting a cotton compress. Stock is being taken readily, and we will begin operations at an early date.

JULIUS LEVINCK.

To Build a Railroad.

LITTLE ROCK, ARK., April 26, 1887.

Editor Manufacturers' Record:

Jas. K. Rifle, Eben W. Kimball, J. S. Brodbeck, J. B. Jones, and P. Rawley have organized to build a belt railway around Little Rock, about 9 miles long. The capital is \$200,000.

EBEN W. KIMBALL.

MONTGOMERY, ALA., April 30, 1887.

Editor Manufacturers' Record:

We have the contract for the brick-work for the new oil mill, in which a million or more brick will be used.

FISH & WILLIAMS.

To Build a Large Tobacco Factory.

GREENVILLE, TENN., April 29, 1887.

Editor Manufacturers' Record:

We expect to build large factory this season. Our capital stock is \$20,000.

GREENVILLE TOBACCO MFG. CO.

NEW ORLEANS, LA., April 28, 1887.

Editor Manufacturers' Record:

We are making a supplemental two-roller sugar mill for Judge E. Rost, of St. Charles parish; rollers are 40 inches diam., and 5½ feet long between collars. We have nearly completed a supplemental two-roller mill for Col. L. A. Ellis, of Austin, Texas, for plantation in Hart Bend county, Texas. Rollers 44 inches diam., 5 feet long.

LEEDS & CO.

Will Rebuild Planing Mill.

BIRMINGHAM, ALA., April 29, 1887.

Editor Manufacturers' Record:

We will commence building next week in this place, and expect to do a much more extensive business than ever before; will run twice as much machinery.

R. J. MILES & CO.

BRUNSWICK, GA., April 25, 1887.

Editor Manufacturers' Record:

Stock is now being taken to erect here a Campbell cotton compress of 2,500 tons pressure and a capacity of 75 bales an hour. It is to cost \$30,000.

COLES, SIMPKINS & CO.

Want to Move South.

IRONTON, O., April 30, 1887.

Editor Manufacturers' Record:

If we can find any city in the South that will suit us, and same will offer suitable inducements, we will move South.

HANGING ROCK STOVE CO.

Will Build an Ice Factory.

VAN BUREN, ARK., April 28, 1887.

Editor Manufacturers' Record:

We have organized the Van Buren Ice & Cool Co., with the following officers: Geo. R. Wood, president; P. D. Scott, secretary and general manager, and T. W. Edmondson, treasurer. We have bought a ten-ton Duopet absorption ice machine, and will have it in full blast by June 15th next. Will at once commence the erection of large brick building in which to operate the same.

GEO. R. WOOD, President.

Rebuilt Grist Mill.

HAWKINSVILLE, GA., April 28, 1887.

Editor Manufacturers' Record:

My saw and grist mill were burned on March 21. Rebuilt at once. Commenced running April 15—all except saw mill.

JOHN L. ANDERSON.

NASHVILLE, TENN., April 30, 1887.

Editor Manufacturers' Record:

The People's Natural Gas Co. has been organized here, with J. G. Houston, president; J. L. Weakley, vice-president; E. W. Hill, secretary; R. L. Weakley and A. W. Harris, executive committee. The machinery is all in place, and the boring will be commenced on Monday, May 2.

R. L. WEAKLEY.

MADISON, GA., April 30, 1887.

Editor Manufacturers' Record:

We have a contract to grade a portion of the Macon & Athens road.

T. C. HAMPTON & CO.

Will Rebuild Saw Mill.

RITCHIE C. H., W. VA., April 26, 1887.

Editor Manufacturers' Record:

We will rebuild our mill right away. It is a total wreck; loss \$1,800 dollars. We expect to put in a 30-horse power mill with a capacity of cutting 15,000 feet lumber per day, and from 4,000 to 6,000 staves per day.

WM. MORRIS.

WAVERLY, TENN., April 25, 1887.

Editor Manufacturers' Record:

Our county (Humphreys) intends building a jail with residence attached at once. The building will be small and is not to cost exceeding \$7,000. The citizens of this town will also at same time have a school-house built to cost about same amount.

T. L. LANIER.

Will Rebuild Saw Mill.

MAYESVILLE, S. C., April 30, 1887.

Editor Manufacturers' Record:

I have decided to rebuild my saw mill and will be in operation again in about ten days.

C. P. MALLETT.

Coal Lands to be Developed.

ATLANTA, GA., April 30, 1887.

Editor Manufacturers' Record:

I purchased 30,000 acres of coal lands in Jackson and DeKalb counties, Ala., and Dade county, Ga., for myself and the following New Orleans parties: A. Baldwin, A. H. May, R. M. Warmesley, G. A. Baldwin, J. L. Harris, R. W. Levy, Jno. M. Parker, T. Prudhomme, G. A. Breaux, Page M. Baker, Jno. A. Hanna and Jno. E. Cassard. Our intention is to develop at an early date.

CHARLES HANDY.

Large New Oil Mill.

HOUSTON, TEXAS, April 29, 1887.

Editor Manufacturers' Record:

All contracts for buildings and machinery for our new mill here have been let. Mill will be completed and ready to commence crushing Sept. 1, with a capacity of 250 tons a day.

THE HOWARD OIL CO.

V. W. ANDERSON, Asst. Sec'y.

To Develop Iron Mines.

LITTLE ROCK, ARK., April 30, 1887.

Editor Manufacturers' Record:

We have formed a company to develop iron mines. Have filed no charter yet, but will soon.

R. W. WORTHEN.

Started a Shoe Factory.

GALVESTON, TEXAS, April 26, 1887.

Editor Manufacturers' Record:

We have started a shoe factory here.

TOLLEMAN & CO.

LITTLE ROCK, ARK., April 30, 1887.

Editor Manufacturers' Record:

There has been a corporation formed to build a railroad from here to Hot Springs, Ark. The greater part of right of way has been secured and negotiations are going on in New York to place the bonds, with good prospects of success.

J. A. FINES.

New Saw Mill.

CHAUNCEY, GA., April 27, 1887.

Editor Manufacturers' Record:

I am building and have everything nearly complete and in working order; a new saw mill 36x180 feet, shed complete; Stearns outfit; size of engine 30x24 feet. Will cut yellow pine exclusively; also enlarging and improving planing mill.

A. B. STEELE.

To Build a Railroad.

LITTLE ROCK, ARK., April 28, 1887.

Editor Manufacturers' Record:

The directors of the Little Rock & Mountain Park R. R. Co. made the preliminary survey to-day preparatory to placing engineers in the field. Subscriptions to the capital stock are being secured. The road will be used for passenger traffic and transportation of stone from the quarries.

E. V. DEUELL, President.

Increased Capital Stock.

TUSKALOOSA, ALA., April 30, 1887.

Editor Manufacturers' Record:

We have increased our capital stock to \$300,000.

FRIEDMAN FURNACE CO.

Stained Glass Works.

NATCHEZ, MISS., April 29, 1887.

Editor Manufacturers' Record:

We are now erecting a building for the purpose of manufacturing ornamental stained glass. Will be in operation in about a month.

DIXON BROS.

Steam Fire Engine Wanted.

ABBEVILLE, GA., April 25, 1887.

Editor Manufacturers' Record:

I wish to correspond with manufacturers of steam fire engines.

A. K. FISHER.

Will Develop a Paint Mine.PARKWOOD, MOORE CO., N. C., }
April 30, 1887. }*Editor Manufacturers' Record:*

We have bought a small ice machine with a capacity of one ton per day, and will have it running during the next month. We shall put in the machinery for developing our paint mine at an early date.

NORTH CAROLINA MILLSTONE CO.

Water Works to be Improved.

TEXARKANA, TEXAS, April 26, 1887.
Editor Manufacturers' Record:

I have purchased the water works from the city of Tyler for the sum of \$12,500 cash. All the papers have been passed and the matter is a settled fact. We purpose expending in the improvement and enlargement of the works about \$35,000, which will give us one of the most complete systems in Texas. The original cost of the works, as built by the city of Tyler, was \$34,000, to which has been added since in the way of improvements about \$8,000; but these works, as others, when operated by water works committees of the city council, have been run at a loss to the city and without any accommodation to the people, which accounts for my being able to purchase them as cheaply as I did.
L. B. FISH.

MACON, GA., April 27, 1887.

Editor Manufacturers' Record:

The construction company is organized to build and equip the Georgia Southern & Florida Railroad. Its terminal points are Macon, Ga., and Gainesville, Fla. The line is located and active work will commence in 30 days. The capital necessary is all arranged for and the work will go on rapidly.
W. W. COLLINS.

LYNCHBURG VA., April 29, 1887.

Editor Manufacturers' Record:

We have been awarded the contract to build most of the iron work for the new furnace for the Virginia Nail & Iron Works and will commence work on it at once. We have about completed our arrangements to add an agricultural department to our present business, and will manufacture plows, corn shellers, straw cutters and cider mills on a large scale and put them upon the market this summer and fall. We are now working 40 hands, and will soon double our force. Order ahead to keep us busy balance of year.
GLAMORGAN IRON WORKS
H. E. MCWANE, Supt.

CHATTANOOGA, TENN., April 29, 1887.
Editor Manufacturers' Record:

I am now arranging to add one more floor, 27x100 feet, to my mattress factory, and have now in operation the very best machinery for preparing husk: also one of Schapker & Sansom's steam-power feather renovators. My cotton pickers, hair pickers and sewing machines now run by steam-power.
M. B. PARHAM.

ANDERSON, S. C., April 29, 1887.
Editor Manufacturers' Record:

The Methodists are going to build at Elberton, Ga., a \$10,000 building; to be of brick, covered with metallic shingles, trimmed with cresting and finals, stained glass, hot-air heaters, &c.
A. W. TODD, Architect.

To Build 100 Houses.

SHEFFIELD, ALA., April 28, 1887.
Editor Manufacturers' Record:

The Sheffield Land, Improvement & Coal Co. will build 100 additional residences at once. The scarcity of skilled labor is much felt by those who contemplate making improvements. Competent contractors are much needed.
A. J. MOSES.

CHATTANOOGA, TENN., April 30, 1887.
Editor Manufacturers' Record:

D. M. Steward is talking of moving his factory to this city, and will probably do so. The East End Land Co. have offered him a site and propose to take some stock in his enterprise. This company has recently located the Lorain Tool Works, of Lorain, O., upon their property, and are now negotiating with other large concerns for the removal of their plants.
EAST END LAND CO.
S. W. DEVINE, S.C.

GRAHAM'S FORGE, VA., April 25, 1887.
Editor Manufacturers' Record:

D. P. Graham has purchased the iron ores on a portion of Franklin Carter's property and will begin developments at once. Will mine and ship ores until furnaces are erected in the immediate neighborhood.
GRAHAM & ROBINSON.

GALVESTON, TEXAS, April 28, 1887.
Editor Manufacturers' Record:

The contract for the jetty work here was awarded us on 16th. The amount available is \$280,000.
A. M. SHANNON & CO.

MURPHY, N. C., April 30, 1887.
Editor Manufacturers' Record:

Bowers, Porter & Smith have bought a site for a hotel, for which they paid \$5,000, and say that they will build a \$30,000 house.
W. N. COOPER.

BURNET, TEXAS, April 26, 1887.
Editor Manufacturers' Record:

The Texas Telegraph & Telephone Co., incorporated, is constructing lines from Burnet to Lampasas and points west. Burnet is its place of business. F. H. Holloway, J. R. Hudson, J. L. Hansford, James Cole, A. R. Johnson and Frank Thomas constitute said corporation. H. W. Logan is constructing a large granite-front opera house out of Burnet granite.
A. R. JOHNSON.

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BUY AND SELL LAND
On most reasonable terms.
Any information concerning Anniston
will be cheerfully given.
Stocks and Bonds Bought and Sold on Commission.

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The South Pittsburg City Company has decided to begin the sale of their manufacturing, business and residence lots on

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Special rates of fare on the railroads, and ample accommodations at reduced rates in the Hotels. For maps, descriptive pamphlets and terms of sale, address

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Refer to THE CORBIN BANKING CO., New York City. Address all letters to Head Office.

CHANCERY SALE.

Under decree of Chancery Court at Jonesboro, Tenn., I will on **May 21, 1887**, on premises at Telford's Station, on East Tennessee, Virginia & Georgia Railroad, in Washington County, Tenn., sell at Auction without redemption the Lands, Factory, Buildings and Machinery heretofore owned by "Telford Agricultural Manufacturing Company."

About ten acres Land; splendid three-story Factory; fine Water-power; 23 horse-power new iron Turbine Wheel; Foundry; Saw Mill; Planer; iron, wood, spoke and handle Lathes; buff Wheel; emery Stone; press and stove Drills; casting Grinder and Cleaner; jointing, band, cut-off and rip Saws; Beam Machine; Flasks; Follow Boards; Plow, Stove and Hollow-ware Patterns; noiseless Blower; Core Stove; Scales; Vises; Benches; Shafting; Pulleys; Belting, &c. Machinery suitable for making Farming Implements, Plows, Stoves, Spokes, Handles.

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Attention of Capitalists and Manufacturers is called to the numerous advantages existing at Fort Scott, Kansas, which will soon make this city one of the most important manufacturing and commercial points in the West, and enable it to maintain its present supremacy over all other cities in this State. The natural facilities are unequalled. Coal of the best quality is sold at \$1.50 to 2.00 per ton; slack, 50 cents to \$1 per ton, delivered. Abundance of stone and brick, best quality. Natural gas is fully developed, and used for all purposes. Facilities for transportation and distribution are unequalled, being already the junction of five trunk railways. Direct communication with lumber regions of Mo. and Ark. Correspondence solicited.
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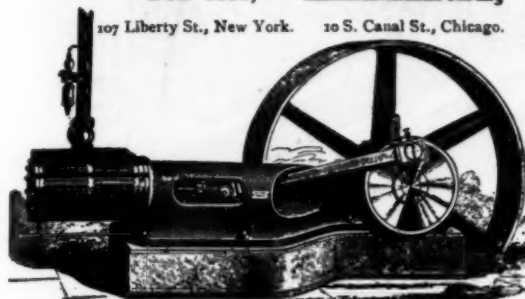
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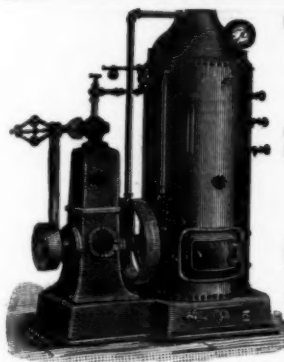


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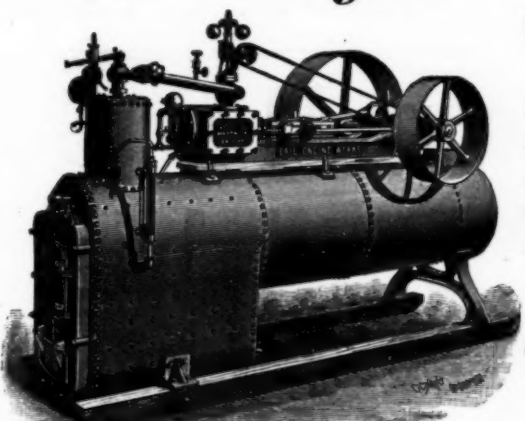
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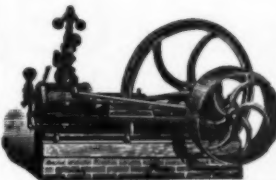
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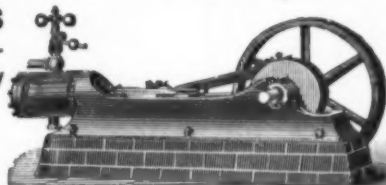
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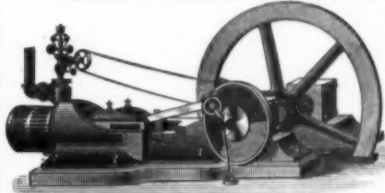
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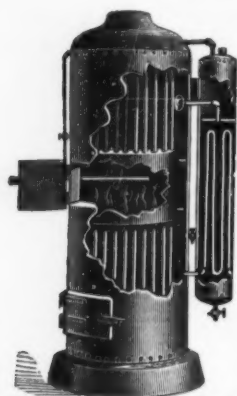
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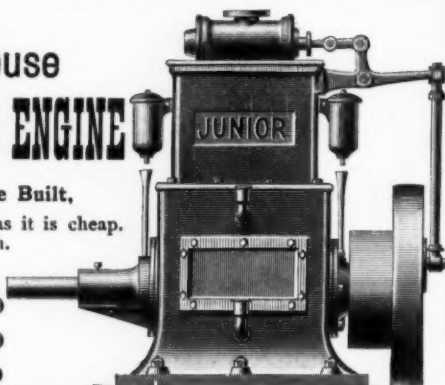
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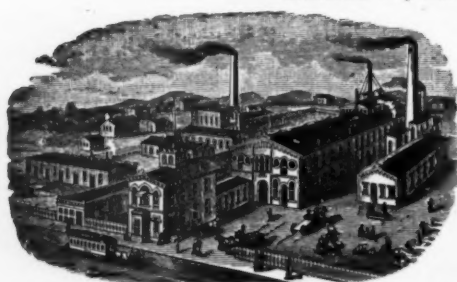
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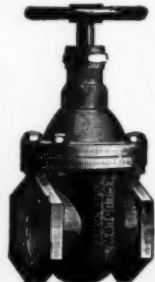
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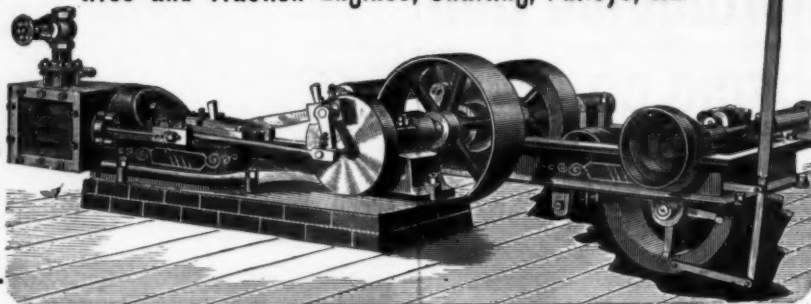
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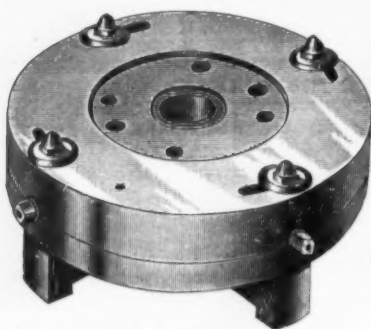
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Mills built at this shop twenty years ago are running to-day, and we can furnish numerous testimonials proving that for the manufacture of lumber on a moderate scale, they are unequalled by any belt mill made. Our carriages are all iron except the feed rack bars. We give our customers their choice of Three First Class Sets. The Hunt Dog clamps both upper and under side of log. All of our mills have Log Turners, Sawdust Elevators, Log and Lumber Cars, Cant Hooks, Wrenches, Etc. We give more for the money than any concern in the country.

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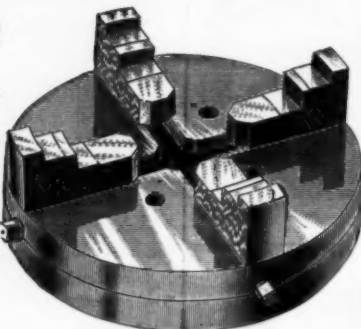
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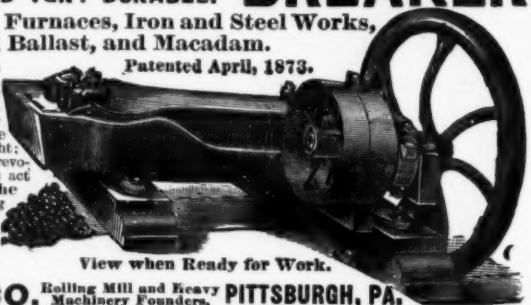
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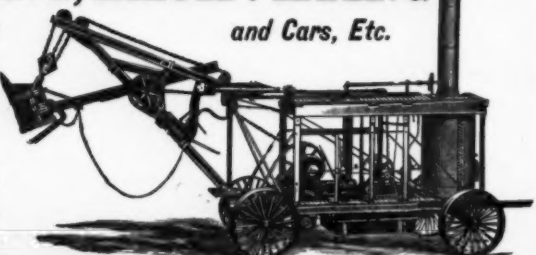
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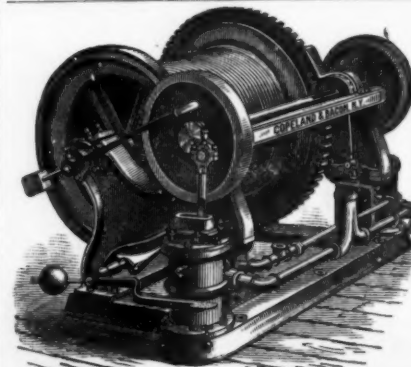
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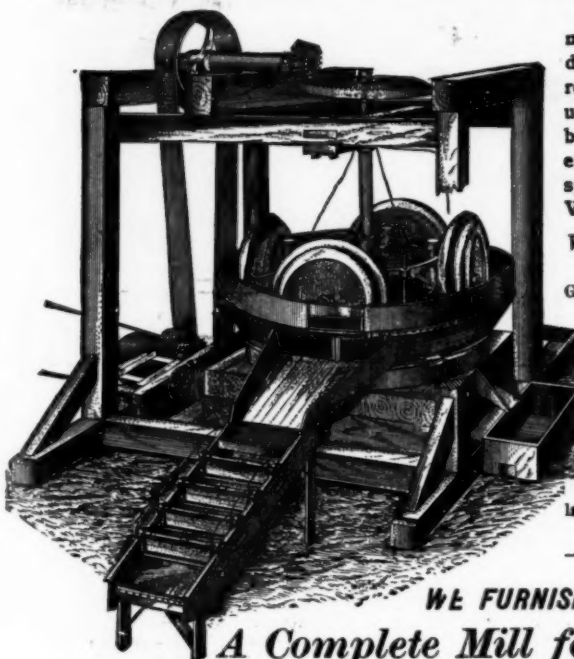
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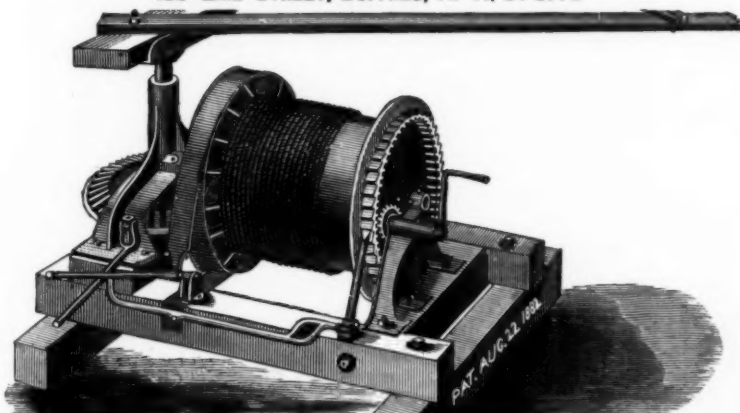
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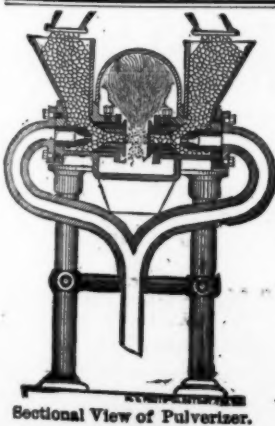
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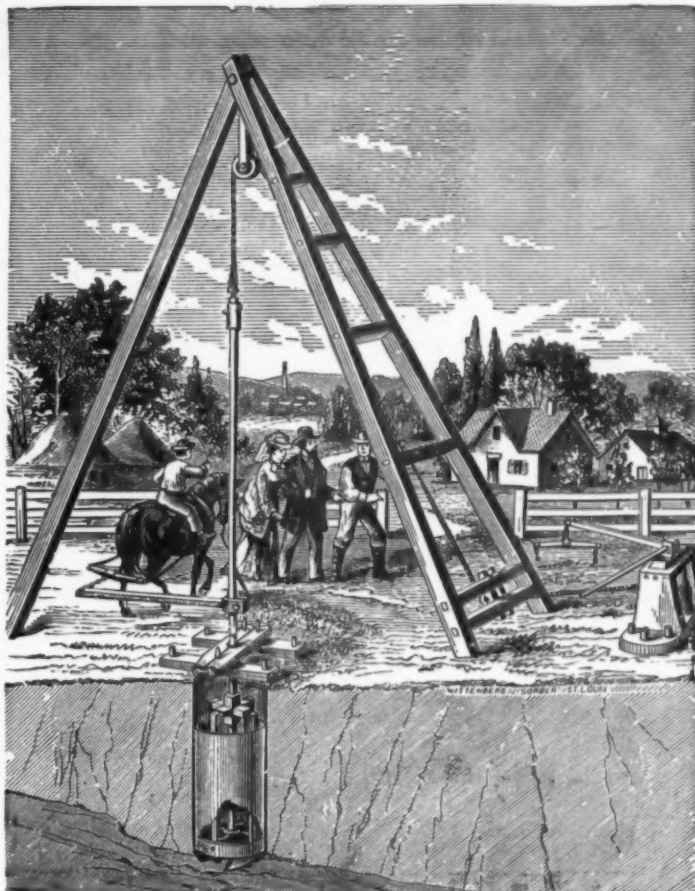
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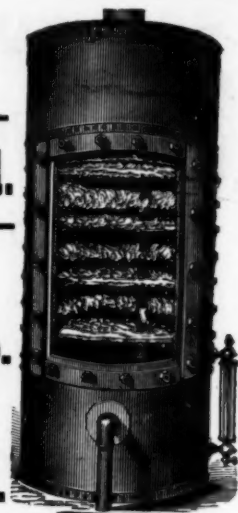
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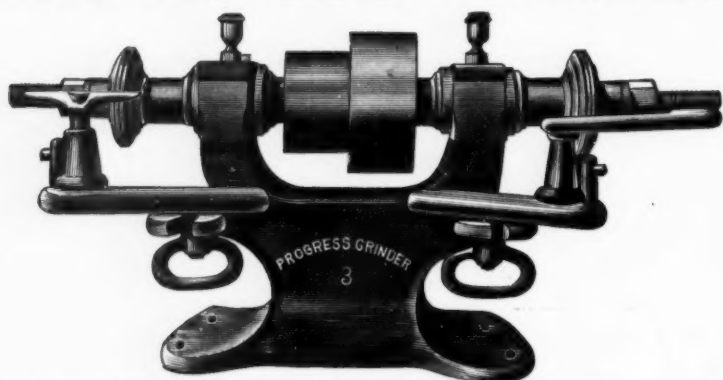
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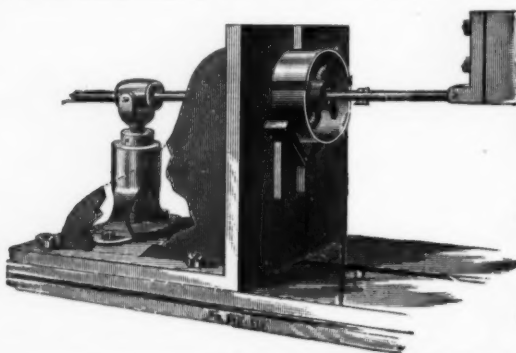


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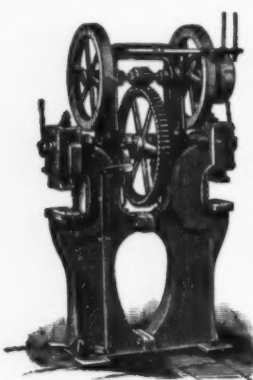


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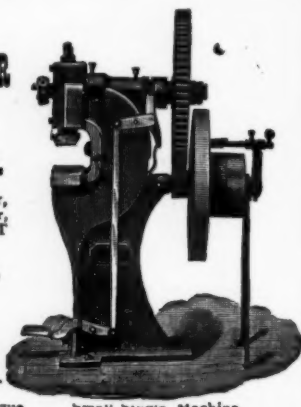
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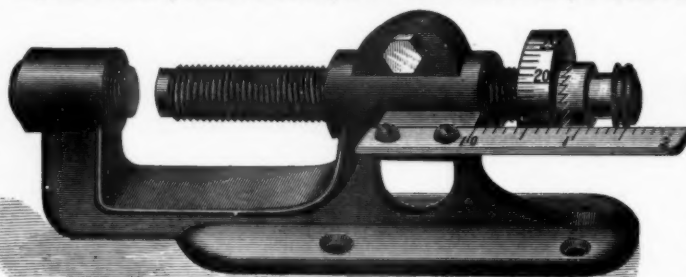
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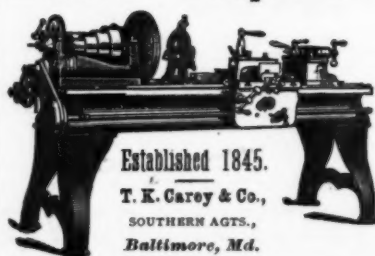
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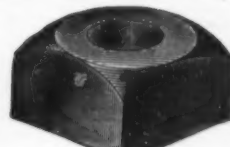
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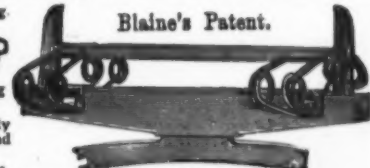
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THE ATHENS MINING & MANUFACTURING CO., at ATHENS, TENN.

A New Railroad Through the Company's Property to the Greatest Iron Fields in the South—A Vein of IRON 75 FEET THICK, only Seven Miles from Athens—Inviting Field for Home-Seekers, and a Splendid Opening for Capital.

The Athens Mining & Manufacturing Company has been organized by an association of gentlemen who are thoroughly acquainted with the wonderful mineral riches of McMinn county, Tennessee, covering the most extensive Iron Fields in the world, measureless beds of Marble of all the best grades and varieties, and vast forests of all the fine Woods used in manufacturing and building, both for ornamentation and utility. The Company is composed of prominent capitalists of New York city, Cincinnati, Louisville, Chattanooga, Knoxville, Atlanta, Selma, Nashville and Athens, the office being at the last named place, with the First National Bank.

The membership of the Company numbers in its composition bankers, brokers, manufacturers, lawyers, journalists, merchants and others, whose high character for business and whose financial standing is a positive guarantee that every proposition made will be faithfully adhered to in detail.

The Company is established upon a business basis, and will be controlled by the strictest business principles. The methods of procedure will conform to such practical and practicable ideas as characterize the most successful and honorable business men of the country. The Company differs from any other ever organized in the South. It does not commence business by flooding the market with stock at a fictitious valuation. It has no stock for sale.

The Lands of the Company comprise a solid body of 800 acres, laying on both sides of the East Tennessee, Virginia & Georgia Railroad, in the northern suburbs of Athens. These Lands have been laid off into wide streets and beautiful lots, preparatory to placing them upon the market, with a view to building a city. The property is a magnificent table land, sufficiently rolling to afford perfect drainage, and commands an excellent view of the valley for miles, and of the Great Smoky Mountains on the east, and the Cumberland Mountains on the West. Upon this property the Company will erect immense Manufacturing Plants, to cost in the aggregate

FIVE HUNDRED THOUSAND DOLLARS,

as a basis for population.

The lots which the Company will sell will be formally placed upon the market on

MONDAY, MAY 16TH, 1887.

All lots are to be sold and deeded under the most positive guarantee that all money paid in on account of sales will go into the hands of a heavily bonded trustee, to be refunded to the purchasers with six per cent. interest if the Company fails in any particular to comply strictly with all its propositions. (See deed.) These include the erection of

- One 100-Loom Plaid Mill, estimated cost \$100,000.
- One 5-set Woolen Mill, estimated cost \$100,000.
- One Cotton Sheeting Mill, estimated cost \$90,000.
- One 3,000-spindle Cotton Carpet Warp Mill, estimated cost \$60,000.
- One 3,000-spindle Warp (for jeans) Mill, estimated cost \$60,000.

A hotel, to cost \$30,000.

Public School Building, to cost \$10,000.

In addition to the above the Company guarantees Electric Lights, Water Works and Street Car Lines. Negotiations are also now pending with a view to the extension of the new Railroad to the large Coal Fields, 25 miles distant, on the Cincinnati Southern Railroad, thereby connecting the vast Iron Deposits with Coal. This will then give North Athens her Iron Furnaces.

The Water to be supplied to the town will be taken from the famous Ingleside Spring, adjoining the property, and which flows over 3,000,000 of gallons each day of very cold water, clear as crystal.

The Company will also donate sufficient ground for other manufacturing enterprises to any company or person desiring to establish the same upon the Company's property, and in addition will subscribe to stock in them.

In a word, The Athens Mining & Manufacturing Company was organized to build a city, and it proposes to stop nowhere short of a full realization of its original purpose.

Elegant lithograph plates of the property, showing the location of each large mill and the course of both railroads through the town, will be displayed at various points, and may be had upon application. Plans and specifications of the mills and other improvements are now being prepared and can be seen at the office of the company at Athens.

The new Railroad, a survey of which is now being made, will be built at once, and will extend to Tellico, 22 miles distant. This Road will open up the richest

IRON, MARBLE AND LITHOGRAPH STONE

Deposits in the United States. One of the veins of Red Hematite Ore, only seven miles distant, is 74 feet thick by actual measurement, and contains, by careful analysis, 53 per cent. of Metallic Iron and only seven per cent. of silica. This is the most notable, but not all of the iron ore. The line of the Road is literally bound by deposits of Iron, Marble and Lithograph Stone, while the lands contiguous to the Road are covered with dense Forests of all the valuable Timbers, such as Walnut, Cherry, Ash, Linn, Hickory, Oak, Cedar, Poplar, Locust, Pine, Maple, Sycamore, &c. There are many varieties of Marble—white, black and variegated in all the colors—and the quantity is positively inexhaustible. It is expected, of course, that the building of this Road, which is an assured fact, will contribute largely to the growth of the new city which the Company is determined to establish.

Copy of Deed of the ATHENS MINING & MANUFACTURING CO.

In consideration of dollars, cash in hand paid, the receipt whereof is hereby acknowledged, and three notes of even date and equal amount, due respectively in six, twelve and eighteen months, interest from date, we have this day sold and do hereby transfer and convey unto the following described real estate, to wit: Lots Block in North Athens, McMinn county, Tennessee. We covenant with said and his heirs that the same is unincumbered; that we have a good right to convey, forever warrant and defend the title to the same. Lien retained until the purchase money is fully paid. Under this purchase it is guaranteed by the Athens Mining & Manufacturing Company that it will erect and equip, or cause to be erected and equipped, upon the above mentioned property in North Athens, the following manufacturing industries and improvements, to wit:

- One Woolen Mill, estimated cost \$100,000.
- One Cotton Sheeting Mill, estimated cost \$90,000.
- One Cotton Plaid Mill, estimated cost \$100,000.
- One Warp Cotton Mill, estimated cost \$60,000.
- One Cotton Warp Mill for jeans, estimated cost \$60,000.
- One Hotel, estimated cost \$30,000.
- One Public School Building, estimated cost \$10,000.

Water Works, Street Car Line and Electric Lights. Also said Company guarantee a Railroad from the E. T. V. & G. R. R., passing through said North Athens to the ore beds east of Athens. Said company reserves the right to change any or all of the particular lines of industries to be erected, but in no case to lessen the aggregate expenditure of \$500,000. Of the expenditure of the above mentioned \$500,000, the Company binds itself to expend said sum as follows: \$150,000 in twelve months, \$150,000 in twenty-four months, and the remaining \$200,000 in thirty-six months; but reserving unto itself the right to expend same aggregate sum in less time than thirty-six months, should it deem it advisable.

Under the sale and purchase of said Company it is the contract between the vendor and vendee hereto that all money paid in upon the purchase of lots shall go into the hand of a bonded trustee, who shall hold all money subject to the faithful performance of special guarantees by said company, and in case said company fails to fulfill said guarantees in the time above mentioned, said trustee is to refund the money with six per cent. interest thereon.

For any information regarding sale or plans call on or address J. T. Woodward, President Hanover National Bank, H. W. McElwee, with Inman, Swann & Co., Cotton Exchange Building, New York; Hon. R. L. Bright, President Tellico Iron Company, Geo. W. Ochs, Manager Daily Times, A. W. Chambliss, Chattanooga; M. O. French, Jr., J. Ivins, U. S. Marshall, Capt. Wm. Rule, Editor Journal, Knoxville; R. J. Fisher, Cashier First National Bank, Athens.

J. L. YOUNG, Secretary of the Company, Athens, Tenn.

Business Chances.

COAL OIL.—Smith county, Tenn., lies in the coal oil belt, and it is believed that coal oil exists in quantities that would pay handsomely if operated. If capitalists, investors, or prospectors will write me I will give all the information I have. Moores Luster, Carthage, Tenn.

WANTED.—A sober, experienced and thoroughly competent mine boss, to open up and superintend inside working of coal mine. Must give references and state salary expected. Address W. P. Laramore, Trout Creek, Ala.

A FINE OPPORTUNITY.—Wanted a partner with capital to start a daily paper in a booming Southern city with 12,000 population. Have a paying and prosperous weekly with between 3,000 and 4,000 circulation and best advertising patronage in the State. Good job office, with type, presses and fixtures and paying patronage. Whole plant worth about \$5,000. Paper long established; demand for it well pronounced. A young man preferred, but a man with some capital is wanted who is willing to follow his money into the business and look after it. Address, E. A. O., care MANUFACTURERS' RECORD.

WANTED.—A practical pattern maker, capable of making ordinary drawings, with some experience in millwrighting and machine work; also, a practical man capable of selling and erecting wind-mills. Address, Progress Engine & Machine Works, Summerfield, Baltimore county, Md.

COTTON PRESS.—I have completed model of a cotton press which possesses substantial merit over any press ever put on market. The advantages are economy in packing power, dispatch of work and ease of management. Not being able to handle it, I desire to dispose of the invention. Correspondence solicited. A. H. Harrington, Harrington P. O., N. C.

WANTED.—A man capable of selecting, preparing and rolling in plug tobacco factory. Must be sober and bring good references. Address C. Whittier, Whittier, N. C.

WANTED.—A man with a small capital and thoroughly acquainted with furniture manufacturing, to take one-half interest in a factory now being built at Sheffield, Ala. Address Z. T. Spencer, Sheffield, Ala.

A PARTNER WANTED with \$5,000 to \$10,000 capital to assist in carrying on the business of a first-class machine shop, with good business prospects, located in Atlanta, Ga. Address all inquiries to Box 297, Atlanta, Ga.

A PARTNER with \$10,000 to \$15,000 wanted to operate a cotton mill in Mississippi. Experience not essential. Mill in running order and can be had free of rent for one year, and very low rent after that. I have had 30 years' experience and know that the mill can clear \$100 a day. One firm will contract for all the yarn mill makes for two years at good price. Myron Kent, Natchez, Miss.

WANTED.—A situation by a thoroughly competent manager of the advertising department of a patent medicine or similar business. Long experience and first-class references. Address H. E. T., care Box 98, Atlanta, Ga.

A PRACTICAL Stove Manufacturer desires to organize a stock company in a growing manufacturing and commercial Southern city to manufacture stoves and fine castings. Corporations and capitalists who would take an interest, please address for particulars, Stove Manufacturer, care MANUFACTURERS' RECORD.

WANTED.—A position in some responsible machine manufacturing, where steam engines or wood-working tools are built. Have 28 years' experience, and have several important inventions in steam engines and wood-working machinery. For further particulars and reference address H. F., 2014 W. Market street, Louisville, Ky.

BERNHARD DIETZ, Manufacturer of Printers' Rollers, and Roller Composition. Factory, cor. Light and Mercer streets, Baltimore. Prices: Composition, (bulk) 30 cents per lb.; for Casting, also, 30 cents per lb. Orders by Mail promptly attended to.

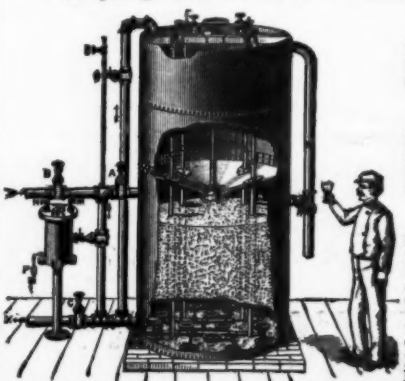
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ESTERBROOK'S
CELEBRATED
STEEL PENS.

PENS

LEADING NUMBERS:
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For Sale by all Stationers.
The Esterbrook Steel Pen Co.
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HYATT PURE WATER SYSTEM.

Adapting Nature's Process—Endorsed by the Highest Authority.



Cohoes, N. Y.; Hon. Daniel Manning, Albany, N. Y.; Western Steel Works, St. Louis, Mo., and hundreds of others. For Circulars, Prices, etc., Address

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Lathes and Machine Tools.

W. F. & JOHN BARNES CO.

Lathes, Drills and Light Machinery.

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Lathes, Millers, &c.

GARDNER VERTICAL ENGINES,

1 to 25 Horse Power.

HUYETT & SMITH MFG. CO

Exhaust Fans and Blowers.

AKRON IRON CO.

Calendered Iron and Steel Shafting.

SCHIEREN & CO.

Extra, Standard and Electric

Leather Belting.

We carry stock of above manufacturers, machinery of all kinds. Estimates furnished on complete shop outfits.

WE HAVE SOME SECOND-HAND ENGINES AND MACHINERY FOR SALE.

Lists sent on application.

AUTOMATIC CUT OFF ENGINES

Embodying a new system of Absolute Regulation against a change of load and boiler pressure. The most perfect governing ever obtained. Send for circular. We guarantee better regulation than is possible for any other engine to give.



ROOTS NEW IRON BLOWER.



POSITIVE BLAST.

IRON REVOLVERS, PERFECTLY BALANCED.

Has fewer parts than any other Blower. Also, Blacksmith Blowers, Portable Forges, Tugue Irons, and Gas Exhaustors.

P. H. & F. M. ROOTS, Manufacturers, CONNERSVILLE, IND.

Send for Priced Catalogue.

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ICE MACHINE.

The advertiser, owning a first-class Ice Machine, desires a party to take an interest in same and erect it in any good Southern town. Party taking interest to manage the business, or if stock company is organized, owner will sell and take stock.

Address P. O. Box 249,

KANSAS CITY, MO.

SOUTH PITTSBURG

AS ANNOUNCED ELSEWHERE IN THESE COLUMNS, THE
South Pittsburg City Company

BEGIN THE

— **PUBLIC** — **SALE** —

OF THEIR

Manufacturing, Business and Residence Lots,

ON NEXT TUESDAY, MAY 10,

AND WILL CONTINUE THE SALE FOR THREE DAYS.

They have arranged for One-fare Railroad Rates for the Round Trip on most of the railroads, and have Hotel Accommodations for 3,000 people.

The Company invite everybody to attend the Sale.

THIS remarkable town has been managed more conservatively, perhaps, than any manufacturing point in the South. Within the past six months there has been established there three additional Blast Furnaces; the great Perry Stove Manufacturing Company, (Perry & Co., Albany, N. Y.); the South Pittsburg Pipe Works; the Sequachee Hoe and Tool Company; the South Pittsburg Brick and Terra Cotta Works; the Faris & Brannon Planing Mill; the Chas. J. Duncan & Co. Planing Mill; the First National Bank; two Hotels, (one of them the equal of the best in the country); a Livery Stable; Ice Factory and five Stores! And yet so little ado has been made over this progress that mere speculators have been kept in ignorance of its chances to make them money!

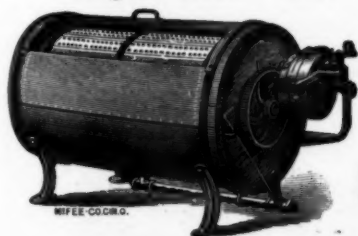
South Pittsburg IS THE Manufacturing Town of Sequachee Valley,

Which is 70 miles long and an average of 5 miles wide; with a wall of Coal on one side and Iron Ore on the other.

Many able Geologists and Iron Masters say it is the most remarkable Mineral section of the entire South.

Laundry Machinery.

Largest Stock. Latest Improvements. Fullest Line.



Washing Machines,
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BOILERS AND ENGINES.

—OUTFITS FOR—
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—A SPECIALTY.—

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SYRACUSE TWIST DRILL CO., Syracuse, N. Y., U. S. A.

Manufacturers of **TWIST DRILL BITS**

—FOR WOOD AND METAL.—



Measuring Machines, Comparators, Reamers, Drill Chucks, Tool Holders, and Special Tools. —Send for Illustrated Catalogue and Prices.

Look Carefully through this paper and you may find an advertisement of some machinery or other goods that you are in need of. Preserve this copy for future reference.

CORDESMAN, MEYER & CO.

171 and 173 West Second Street, CINCINNATI, OHIO.

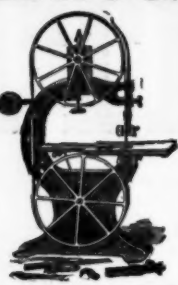
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Wood Working Machinery

OF EVERY DESCRIPTION.

Planing Mills, Furniture and Chair Factories,
Carriage, Wagon and Agricultural Works.

Write for our latest Catalogue and Price List. Correspondence solicited.

**HERBERT BAKER,**

MANUFACTURER AND DEALER IN

WOOD-WORKING MACHINERYPlaning Mills, Furniture Factories, Sash, Door and Blind
Factories, Wagon and Agricultural Works.

MACHINERY FOR PATTERN SHOPS A SPECIALTY.

98 Erie Street, TOLEDO, OHIO.

**TREVOR & CO.**

Lockport, N. Y.

MANUFACTURE

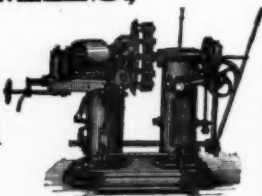
**HEADING
SHINGLE
AND
STAVE
Machinery**Also LATHES,
And SPECIAL MACHINERY
For Turning Handles and all
other Turned Articles of Wood.If you want Shingle,
Heading and Stave Machinery
write for Catalogue A.If you wish Handle Machinery
ask for Catalogue B.We solicit correspondence,
and will give it
prompt attention.

Mention This Paper.

E. & B. HOLMES,

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MANUFACTURERS OF

CHAMFERING, HOWELING, AND
CROZING MACHINE.**Barrel
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HEAD ROUNDER.

Chamfering, Howeling and Crozing Machines, Stave Dressers, Stave Jointers, Hoop Drivers,
Crozing Machines, Heading Jointers, Heading Dressers, Beer Stave Benders,
Stave Cutters, Leveling and Trussing Machines, Cylinder
Stave Saws, Heading Saws, etc.

— STAVE, BARREL, KEG AND HOGSHEAD MACHINERY. —

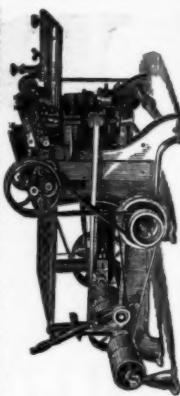
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STEARNS MFG. CO., ERIE, PA.

BUILDERS OF

Capacity 15,000 to 450,000 feet per day. CIRCULAR SAW MILLS Complete outfits
planned and furnished.**ENGINES,** 15 to 800 **BOILERS** OF IRON
Horse-Power. OR STEEL.**BAND SAW MILLS,** with Friction or
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Wilkin Heavy Gang Saw Mill for large mills. Lath and Picket Mills, Bolters, Conveyors, &c.

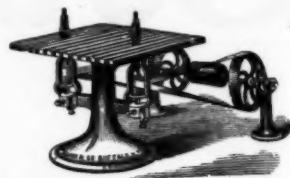
Economist Planer and Matcher.

PRICE, \$365.00
24-inch.
20-inch.**FRANK & CO.**

Manufacturers and Dealers in

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FOR

Planing,
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176 Terrace St., Buffalo, N. Y.

A FULL LINE OF

Wood-Working Machinery,

Designed Expressly for

SOUTHERN TRADE.

SPECIAL DESIGNS IN

Re-saws, Planing Machines, Joint-
ers, Band-Saws, Etc.Send for Catalogue and Prices before purchasing
elsewhere. Mention this Paper.

SNIGGS & CO., - - Buffalo, N. Y.

WORKSHOPS

WITHOUT STEAM POWER

SHOULD HAVE

BARNES'Patent Foot Power Machinery, COMPLETE
Outfits for actual workshop business.
With them Builders, Cabinet
Makers, Metal and Wood Work-
ers compete with steam power.
Machines on trial if desired.Proof of value, prices, full
detail, illustr'd catalogue, free.
W. F. & John Barnes Co.
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Address No 221 Ruby St.**Barnes' Pat. Upright Drills**20-inch Swing, with both
Worm and Lever Feed.**Barnes' Pat. Engine Lathe**
15 inch swing, 6-foot or 8-foot Bed.
These machines are made a specialty
in our factory, they have advantages
not found in other machines in this
line. It will pay parties desiring to
purchase, or know more about this
class of machines, to send for full
descriptions and prices.
W. F. & JOHN BARNES CO.
221 Ruby St., Rockford, Ill.**Atlanta Saw Works**

MANUFACTURERS OF EVERY VARIETY OF

SAWS

AND DEALERS IN

Saw Mill Supplies.Special attention
given to
Repairing.
AGENTS FOR

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Large and well-selected stock at low prices and on liberal terms. Write for
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ESTABLISHED 1845.

The Oldest Saw Manufactory in the South.

**TOLAND & SON, Front & Low Streets, Baltimore.**Particular attention paid to Large Circular Work. We warrant our Circular
Saws to stand more strain, without buckling or cracking, than any other make.
We make all kinds of Tough-Tempered Circular, Mill, Cross-Cut, Band and Drag
Saws, Planer Knives, Ensilage, Feed, Tobacco, Meat Choppers, and other Knives
made to pattern, and Moulding Bits warranted equal to the BEST. N. B.—We
make no charge for hammering any Large Circular Saw that we can't make "go."
GIVE US A TRIAL, and for toughness of temper, durability and quality of
material, compare our work with the best you have ever used.**THE BILLINGS & SPENCER CO. HARTFORD, CONN.**

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STANDARD MACHINE WRENCHES

SINGLE AND DOUBLE END

IN 16 SIZES.

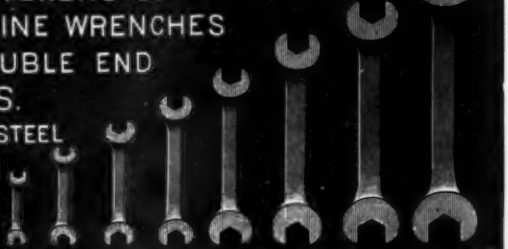
DROP FORGED OF BAR STEEL

TAKING NUTS FOR 1/4 INCH

UP TO AND INCLUDING

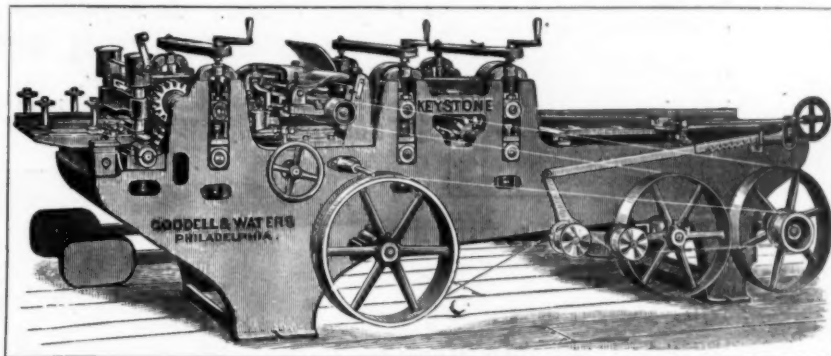
NUTS FOR 1 1/4 INCH BOLTS

AND ALL DESCRIPTIONS OF STEEL AND IRON DROP FORGINGS.



"KEYSTONE"

Rapid Feed Flooring Machine.



SEND FOR DESCRIPTIVE CIRCULAR AND PRICES.

GOODELL & WATERS, Manufacturers,

WESTERN WAREROOMS:

11 and 13 S. Canal Street,
CHICAGO, ILL.

MR. C. L. RICE, MANAGER.

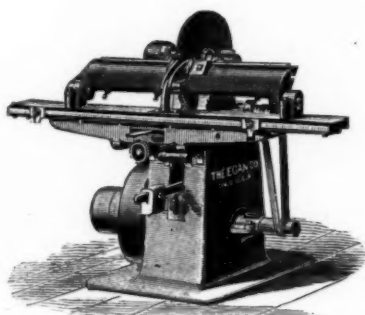
3002 Chestnut Street,

PHILADELPHIA.

WOOD · WORKING · MACHINERY

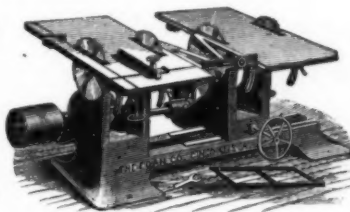
Of the Latest Improved Designs

For Furniture Factories, Planing and Saw Mills, Chair Factories, Piano and Organ Factories, Carriage and Wagon Works, Car Works, &c.



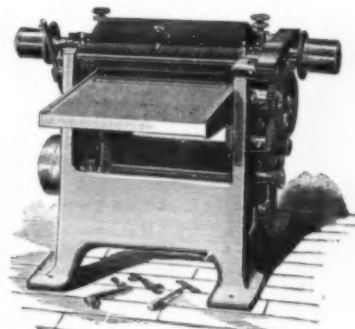
Automatic Knife Grinder.

WRITE FOR
QUOTATIONS.



Double Cutting-Off Saw.

SATISFACTION
GUARANTEED.



No. 1 1/2 Single Cylinder Surfer.

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Sheet Brass, Seamless & Brazed Brass AND Copper Tubing

BRASS and COPPER WIRE, and RODS,

Gas and Kerosene Burners and Trimmings. The Celebrated Leader Burner a Specialty.

ELECTRIC COPPER WIRES, Plain and Covered. Particular Attention given to Cutting Blanks and Metals to Order.

Buy "THE NEW SOUTH." HANDSOMELY BOUND IN CLOTH. PRICE, \$2.50. MANUFACTURERS' RECORD CO., Publishers, Baltimore, Maryland.

THE GLOBE Incandescent Lamp.



A 400-Candle Power Coal Oil Burner which will brilliantly illuminate a room 40 feet square.

For lighting Storerooms, Hotel Offices, Dining Rooms, Halls, Churches, Restaurants, Saloons, etc. Wick 12 inches in circumference. Reservoir holds 15 pints. Costs less than two cents per hour to operate. The wick is raised by a vertical movement without Ratchets or Rollers.

Produces a soft, steady, golden illumination at about one-third the cost of gas.

Affords the convenience of but one reservoir to fill and one globe to clean. Specially adapted for lighting factories where a powerful STEADY light is required.

TWO GLOBE LAMPS will produce as much light as one arc electric lamp, and will illuminate a room with greater satisfaction, requiring no machinery.

WE make a full line of Oil and Gasoline Torches, for lighting Mills, Machine Shops, Foundries, &c.

The "Victor" Convertible Furnace,

for Tinner's and Plumbers' use, which will heat coppers and melt metal QUICKER than any furnace in the market.

SEND FOR CATALOGUE.

MANUFACTURED BY

The "NEW DAVIS" Single Generator VAPOR COOK STOVE.

WITH The Original Steel Frame and Automatic Safety Lighting Device. All others follow as imitations. Buy none but the Original. Made in a full line of sizes, with ovens above or below. The Oven on the "NEW DAVIS" RANGE is the largest placed on a Vapor Stove. Is supplied with Two burners and an Automatic Lighting Device. The burners light from the outside.

The Steel Frame Saves Breakage! Saves Freight! Saves Expense! Saves Annoyance! Burners are Simple, Powerful and Economical, and light like Electricity.



D. B. BAYLESS & CO.

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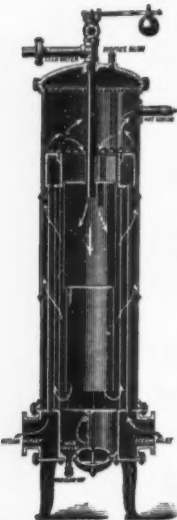
Agents for "THE NEW DAVIS."

Perkins Ave. and
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THE STANDARD LIGHTING CO.

THE GOUBERT PATENT Feed-Water Heater AND PURIFIER.



Can be thoroughly cleaned without taking it apart.

Has a positive device for the prevention of Back Pressure.

Purifies the water better than any other exhaust steam heater.

Has a positive circulation, making all parts of the heating surface equally effective.

Brass Tubes Free to Expand.

Efficient and Durable.

For Circulars and Specifications, address

The Goubert
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5 BECKMAN STREET, NEW YORK.

1837. NOVELTY WORKS. 1886.

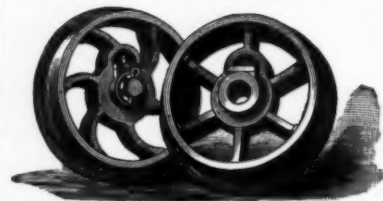
JAMES MURRAY & SON,
Machinists and Millwrights

Engines and Boilers, Mills of all kinds, Marine Railways, &c. Improved Clay Tempering Machinery, Steam or Horse Power. Phosphate Machinery, Crushers, Rollers, Mixers, &c., &c.

40, 42 & 44 York Street,
NEAR LIGHT, BALTIMORE.

Repairing of all kinds promptly done.

Patent Tram Wheel



THE MOST PERFECTLY

Chilled and Automatic Self-Oiler

IN THE MARKET.

Will run two months with one filling of the reservoir. The economy in oil by using these Wheels pays for them. For particulars and prices of Wheels, Axles and Mining Cars, address,

GEORGE PEACOCK,
Selma, Ala.



Bates' Hand Elevators.
Patented April 18, 1871. Reissued July 26, 1876.
OVER 6,000 IN USE.

Adapted for Warehouses, Stores, Factories, Hotels. Public Institutions, and every place where merchandise, &c., is transferred from one story to another.

JAMES BATES, Patentee,
Nos. 1 3 & 5 President Street, BALTIMORE.

HUGH Sisson & Sons,

210 E. Baltimore St., bet. North & Calvert Sts.,
BALTIMORE.

MANUFACTURERS OF

Marble Monuments

Tombs, Altars, Counters,
Furniture Slabs, Mantels, Tiles.

Estimates and Drawings Free.

For Sale Cheap
ON LONG TIME.

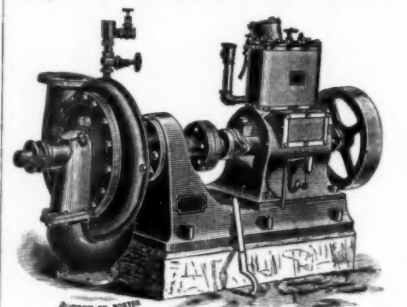
1 32 in. x 32 in. x 9 ft. heavy, second-hand planer.
1 Davis Keyseater, 1/4 in. to 1 in., Keyseater, Bargain.
3 Steam Pumps, second-hand. All sizes.
1 Chasing Lathe, 17 in. x 5 ft. Bed. New Haven.
1 No. 4 Sturtevant Blower. Good as new.
1 Second-hand Corn Grinding Mill.
1 10 Horse Power and 1 12 Horse Power Portable Engine and Boiler on wheels, second-hand.
Vertical Engines, 1 to 20 Horse Power.
Horizontal " 6 to 30
Vertical and Horizontal Boilers, either iron or steel—any horse power desired.
Round and Square Tanks—all sizes.
Saw Mills and Planing Mill Machinery and Machine Shop Tools.

Also,
Shafting, Pulleys, Hangers, Belting, Belt Fasteners, Lace Leather, Belt Grease, Journal Grease, Pipe, Tubes, Fittings, Valves, Pipe Tools, Files, Bolts, Set and Cap Screws, Wrought Rim Pulleys, Sheet Gum and Packing, all kinds. Boiler Scale Preventive, Gardner Governors 1/2 in. to 4 in. in stock.
Headquarters for Gas Engines.
One Sturtevant Blower, Monogram Pattern.

WM. C. CODD,

2010 and 2012 Aliceanna Street,
BALTIMORE, MD.

WEBBER'S STEAM CENTRIFUGAL PUMP,



Giving greater efficiency than any other Pump in the market. Send for Catalogue.

LAWRENCE MACHINE CO.

Mason Building, - - - BOSTON, MASS.

New York Office, 17 CORTLANDT ST.

AGENTS—J. Post, Jr. & Co., Boston, Mass.; Fairbanks & Co., St. Louis, Mo.; H. P. Gregory & Co., San Francisco, Cal.; R. H. Buchanan, Montreal, P.Q.

Roller Chain Belting



Detachable in every Link
FOR IMPROVED
ELEVATORS,
Conveyers,
AND
DRIVING BELTS.

FOR HANDLING
Coal, Ores, Grain,
CLAY, BRICK, &c.

ADDRESS THE
Roller Chain Belting Co.
COLUMBUS, OHIO.

Also Manufacturers of the
Legg Coal Mining Machines
and Rotary Power Coal Drill.
Send for Illustrated Catalogue.

TRADE NOTES.

F. C. WELLS, Chicago, Ill., manufacturer of steam pumps, has received a contract to furnish the St. Paul, Minneapolis & Manitoba Railway, now being built between St. Paul and Helena, Montana, with their entire outfit of steam pumps. Mr. Wells is at present engaged in shipping 27 pumps and boilers to the company's headquarters. Work on the new road is being pushed night and day, using electric lights at night. The contractors are under bond to lay down 5 miles of track every 24 hours. The road is expected to be open for transportation by October or November next.

THE American Well Works, Aurora, Ill., manufacturers of well-sinking machinery, report a largely increased business in the South and Southwest. Among recent shipments was a set of tools for a 12-inch well, sent to Eureka, Cal. They have also contracted with the Texas & Pacific Railroad to sink a large number of wells along their line, to be used for water tanks. Work is also being finished on wells for the Southern Pacific road at Flatonia and Hondo City, Texas. This company was recently sinking a well in Galveston, and while working through a body of salt water they suddenly came upon a stream of fresh water. Such an occurrence, it is said, has never been known in that section before.

WILLIAM TOD & Co., of Youngstown, O., are compelled to run their shops 22 hours per day to meet the demand for their Porter-Hamilton Engines and Hamilton Blowing Engines.

MR. J. M. KLUIGLESMITH, formerly manager Atlanta Wind Engine Co., will travel in the interests of the D. A. Tompkins Co., of Charlotte, N. C.

THE Baldwin Fertilizer Co., Beaufort, S. C., has purchased a 20-inch Sturtevant Mill for its works, recently bought of Hume Bros. & Co., Beaufort, S. C.; the Birmingham Cement Manufacturing Co., Birmingham, Ala., has purchased a Sturtevant Mill for pulverizing iron slag used in connection with the making of cement, and the Republic Reduction Works, Houghton, Mich., have started a Sturtevant Mill, recently purchased for pulverizing iron ore, and report excellent results.

THE Model Machine Works, of Indianapolis, Ind., builders of the Castle Automatic Engine, write us: "We have had an excellent trade, having sold 22 engines since the first of the year, and not a single trouble from them, and have almost caught up with our orders. From the present outlook we anticipate an exceedingly busy trade, and are contemplating an increase of capacity very soon."

THE Chicago Mortising Machine Co., 123 and 125 Washington street, have invented a mortising machine on an entirely new principle, which is said to be attracting much attention among wood-workers because of the simplicity and ease with which it can be handled even by inexperienced hands. An illustration and description of this machine will soon appear in the MANUFACTURERS' RECORD. C. H. Douglass, manager of the above company, will furnish complete information upon application.

MESSRS. R. P. McCARMICK & Co., of Kansas City, Mo., contractors for the double-track railroad tunnel at Kansas City, 1,000 feet long, have placed their order with the Ingersoll Rock Drill Co., of New York City, for a complete plant of tunneling machinery, comprising 1 straight-line air compressor, 1 air receiver, 7 Ingersoll Tunneling Drills, with columns, mountings, etc., boilers, etc. Messrs. McCarmick & Co's contract requires the completion of the tunnel within 90 days.

THE Southern Cotton Oil Co. has closed a contract with the Buffalo Scale Co., of Buffalo, N. Y., for railroad track scales, wagon scales and a large variety of small scales for the various mills of the company in important Southern cities. The order was one of the largest ever given and was sharply contended for by all the prominent scale companies.

THE extensive works of the M. C. Bullock Manufacturing Co., of Chicago, are equipped with the latest and best tools for making the various specialties in the machinery line manufactured by this company. Among the new machines for which patterns are now being made are four boring drills, printing-press work, Boyle ice machines, diamond drills and Lane band friction drums. They are now building a new 8-page perfecting press, which is very compact, beautifully designed, and is said to be destined to work a revolution in printing; and have just finished a machine for making railroad spikes, which is new and novel. This machine, they say, will make from 90 to 100 spikes per minute, taking the bar right from the rolls without reheating, against 35 to 40 per minute from specially-rolled bars by the old machines.

THE Seneca Falls Manufacturing Co., of Seneca Falls, N. Y., are one of the leading and largest manufacturers of scroll saws, lathes of every description and make a full line of specialties, saws, and everything appertaining to this line of small machines. Their catalogue, fully illustrated, should be in the hands of all carpenters, builders and those who want first-class outfits for fret sawing, turning, or pattern work. The advertisement of this concern will be found in another column.

THE many friends of the pioneer concern of E. & B. Holmes, Buffalo, N. Y., leading manufacturers of barrel, keg and hoghead machinery will be pleased to learn that they are now manufacturing a full line of wood-working machinery in connection with their old business. The high reputation of this well-known concern will place them in the front rank with the best manufacturers of wood-working machinery in the country. We wish them success in their new undertaking.

THE following orders have been recently booked by Riehle Bros., scale and testing machine manufacturers, of Philadelphia, Pa.: One foundry tester for E. P. Allis & Co., of Milwaukee, and a rope twister for the same firm; one 5,000-pound wire testing machine for the Western Union Telegraph Co., at Chicago; a foundry tester for the Chicago Foundry Co., of Chicago; a 2,000-pound Standard cement testing machine for Princeton College, Princeton, N. J.; one spring tester for London, Eng.; a rope twister for the South Pittsburg Pipe Works, Chattanooga, Tenn.; a 9-beam charging scale for the South Chicago Rolling Mill Co., Chicago, Ill.; a rope twister for Dennis Long & Co., of Louisville, Ky., and three band testers for the Standard Oil Co.; one for the Acme Oil Co., Olean, N. Y.; one for the Atlantic Refinery, Philadelphia, and one for the Imperial Refining Co., Oil City, Pa. The demand for the many specialties made by this firm has been good, and the prospects are favorable for a continuation of same.

HUGHES' BROS. Steam Pump Works, Cleveland, Ohio, are in receipt of an order for one of their splendid compound duplex steam pumps for the water works of Dallas, Texas. Emerson, Talcott & Co., of Dallas, Texas, are the Texas agents for the Hughes' pumps.

THE Garry Iron Roofing Co., of Cleveland, Ohio, write us: "Business outlook is good for coming year. Have had to increase our capacity in order to keep pace with business."

MESSRS. BOGGS & CLARKE, Syracuse, N. Y., who are sole manufacturers of the well-known Baldwinville centrifugal pumps, have recently issued a very neat illustrated catalogue of their complete line of pumps, containing useful hints for setting up pumps and other information which will be found interesting to many. The book is sent free upon application.

MISS HELEN GRAY CONE, whose verses in the leading magazines, and whose volume of poems, "Oberon and Puck," have given her a prominent place among our young women of letters, and Miss Jeannette L. Gilder, of The Critic, and the editor of "Representative Poems of Living Poets," have been at work for some time past upon a book that promises to be as popular as it is entertaining. It is in two volumes, of the size of "Actors and Actresses" series, and is called "Pen Portraits of Literary Women." These portraits are drawn by the women themselves and by their contemporaries, and it may truthfully be said that most of them are from the life, and that all of them are life-like. With two exceptions, George Sands and Harriet Beecher Stowe, these portraits are of English literary women, from Hannah Moore to George Eliot. There is given a concise biographical sketch of each lady, done most capably by Miss Cone, and then follow the descriptive anecdotes, culled from every conceivable source. There are endless volumes given up to accounts of literary men, but this is the first of its kind, we believe, in which the ladies have had it all to themselves.

List of Patents.

The following Patents were granted to citizens of the Southern States, bearing date April 26, 1887. Reported expressly for this paper by Louis Bagger & Co., Mechanical Experts and Solicitors of Patents, Washington, D. C.

Armat, Thomas, Richmond, Va. Car coupling.....	361,664
Barber, J. F., Broken Arrow, Ala. Harness.....	361,917
Beales, E. D., Guyandotte, W. Va. Door spring.....	361,981
Beckwith, G. H., Charlestown, W. Va. Remedy for hog cholera.....	361,741
Berry, W. R., Salado, Texas. Cotton or hay press.....	361,743
Boyd, J. W., Aurora, Texas. Wire tightener.....	361,745
Bridgeford, W. L., Louisville, Ky. Adjustable blower for stoves.....	361,809
Brooks, L. L., Knoxville, Tenn. Corn planter.....	361,924
Bush, T. J., Lexington, Ky. Interlocking bolt. (2 patents.).....	361,985
Caldwell, B. F., Wheeling, W. Va. Stove pipe. (2 patents.).....	361,861
Coleman, F. W., Rodney, Miss. Carrier for ash pans.....	361,863
Cordray, H. A., Brenham, Texas. Toy race course.....	361,812
Dick, J. M., Greensborough, N. C. Furnace attachment.....	361,933
Dunbar, Addison, Campbell, Texas. Hypodermic syringe.....	361,750
Ferguson, G. J., Greenville, Texas. Car coupling.....	361,867
Goodman, W. D., and F. Tuttle, Paris, Tex. Harness saddle.....	361,936
Gregory, James, Bogansville, S. C. Motor.....	361,937
Halton, J. C., Deanburg, Tenn. Plow.....	362,008
Hambleton, F. H., Baltimore, Md. Gas making apparatus.....	361,820
Jones, Reuben, Atlanta, Ga. Car coupling.....	361,823
McLean, Silamon, Mineral Springs, S. C. Cotton seed mill.....	362,028
Roop, H. W., McMechin, Fla. Excavator.....	361,895
Sailor, D. A., Little Rock, Ark. Apparatus for handling cotton.....	362,041
Schwalm, Francis, Fort Smith, Ark. Animal poke.....	361,839
Searies, E. B., Baltimore, Md. Sliding door lock.....	361,897
Stiles, E. P., Austin, Texas. Dental chair.....	361,906
Subers, L. A., Phoebus, Va. Pedal attachment for reed organs.....	361,970

A. P. THAYER,
Solicitor of U. S. and Foreign
PATENTS,
No. 86 Astor House, New York.
Experience of Over 20 Years.

Important.

When visiting New York city, save baggage express and carriage hire, and stop at the Grand Union Hotel, opposite Grand Central Depot.

600 handsomely furnished rooms at \$1 and upwards per day. European plan. Elevators and all modern conveniences.

Restaurants supplied with the best. Horse cars, stages and elevated railroads to all depots. You can live better for less money at the Grand Union Hotel than any other first class hotel in the city.

THE American House, Boston, holds its popularity as well as any hotel in the country, on account of its central location, excellent management and liberal charges for first-class accommodations.

THE BEST.—First-class accommodations at Palace Hotel, Cincinnati, \$2 and \$2.50 per day. Elegant rooms, fine table and all conveniences.

Stevens Filter Co's UPWARD Self-Cleansing Filters.

The best filter for rapid and thorough purification of water for household use. Thousands in use and all give satisfaction. Durable, simply constructed, tastefully decorated, several styles, many sizes, various prices. Send for catalogue to



**The Stevens
FILTER CO.**
Toledo, O.

or Bartlett, Hayward & Co., Baltimore, Md.; J. S. Silva, Savannah, Ga.; Phillips & Buttrick Mfg. Co., Nashville, Tenn.; F. Ozanne & Co., Memphis, Tenn.; Simmons Hardware Co., St. Louis, Mo.; E. D. Smythe, Jr., Augusta, Ga.

HOW TO KEEP BOILERS CLEAN

And Prevent SCALING, FOAMING, BURNING. Price \$75.00. Removes Lime Oil, Magnesia, without use of Compounds.



Hotchkin Mechanical Boiler Cleaner,
Illustrated in an eighty-eight page book, which will be mailed free, to any address, by JAS. I. HOTCHKISS, 98 JOHN ST., N. Y. Beware of Infringers.

I WISH TO CORRESPOND

With a manufacturer prepared to substitute light for heavy boxes, (6, increasing to 12,) in a Callahan Cotton-Seed Oil Press. Address,

J. D. WILLIAMS, Fayetteville, N. C.

McShane & Bell Foundry

Fine Iron and Brass Castings Made to Order. Manufacture those celebrated Bells for Tower Clocks, Court-Houses, Cotton Mills, Factories, &c. Prices and catalogues sent free. Address **H. McSHANE & CO.** Baltimore, Md. Mention this Paper.

ARCTIC ICE MACHINE MFG. CO.

Works, 4, 6, 8 & 10 West Street, Cleveland, O. Manufacturers of Machines for Making Ice and for Refrigerating Breweries, Pork Houses and buildings of all kinds requiring a steady, low temperature. Over 100 of our machines now in use. Send for any particulars desired. P. O. Box 92, Cleveland, Ohio, or P. O. Box 348 Cincinnati, Ohio.

To Build a Large Wagon Factory.

ATLANTA, GA., April 30, 1887.

Editor Manufacturers' Record:

We have bought a site for a new factory building and will next fall or spring commence building. Our intention is to put up a first class building and equip it in the best possible manner. We bought the ground for this purpose and know of nothing to hinder our carrying out our intention in regard to building.

BOYD & BAXTER.

Building Smelting Works.

ST. LOUIS, MO., May 2, 1887.

Editor Manufacturers' Record:

There are two smelting works now going up at El Paso, and the railroad to the coal fields at White Oaks, 140 miles distant, has also been commenced. THOS. HOWARD.

Building a Saw Mill.

BOGUE CHITTO, MISS., May 2, 1887.

Editor Manufacturers' Record:

We purchased the old Morey & Wesson saw mills, railroad, &c. We have extended the iron road to new mill which we are completing now; expect to saw about the 20th; will demolish old mill and sell machinery. Are building dry house; will move planing mill and add to it, and expect to cut about 35 to 40 M feet daily. We are incorporated with \$100,000 authorized capital.

KEVSTONE LUMBER & IMPROVEMENT CO.

Developing Mines.

ST. LOUIS, MO., May 2, 1887.

Editor Manufacturers' Record:

In company with several other gentlemen here in St. Louis we have purchased large interests in two mining companies; one, the Ozark mine, located about 20 miles from Hot Springs, Ark., which is said to be very rich in silver; another a cobalt and nickel mine, located about 16 miles from Hot Springs. We are developing same rapidly, and think we have a good paying property.

SOUTHERN WIRE COMPANY,

J. W. GATES, president.

ATHENS, TENN., May 2, 1887.

Editor Manufacturers' Record:

I have the contract to build one mile of street railroad in this place to be finished July 1, 1887.

J. L. YOUNG.

MONTVALE SPRINGS, TENN., May 2, 1887.

Editor Manufacturers' Record:

We have struck a rich vein of silver ore at one place, and gold and silver in abundance at another. This is on the south side of the mountain.

J. C. ENGEL.

A Creamery.

FREDERICK, MD., May 2, 1887.

Editor Manufacturers' Record:

I am now erecting a brick building, 24x40 feet, two stories, to be used as a creamery. Intend putting in the latest improved machinery, with a capacity of 6,000 pounds of milk a day.

C. L. C. LAMPE.

Erecting Ore Washers.

PULASKI CITY, VA., May 2, 1887.

Editor Manufacturers' Record:

The Pulaski Iron Co. are putting up four double washers on their Cripple Creek property and have started mining.

JOHN S. KENNEDY, Genl. Mgr.

Will Rebuild Grist Mill.

INDIAN TOWN, N. C., May 1, 1887.

Editor Manufacturers' Record:

Will rebuild my grist mill in two or three months; mill was burned April 10, 1887.

STEVEUS & BRAY.

Improvements at Jacksonville.

JACKSONVILLE, FLA., April 26, 1887.

Editor Manufacturers' Record:

While there is no paper mill in contemplation here at present there is a plan talked of to prepare the pulp from palmetto and ship it to the mills at the North, the intention being to try and utilize a waste material. We have had a little lull in the building boom here for the past three months, but business is now reviving. We are getting up plans for a large Sunday-school building to cost \$7500; a two-story brick residence to cost \$5,000; three cottages to cost each \$2,200, and two large brick store buildings, three stories each. We are also preparing plans for a building of glass and iron, to be used for a sub-tropical exposition. This is to be a permanent exhibition, filled with tropical plants, trees, birds, fish, &c. I would like prices on glass, such as is used on buildings of like character, or the names of manufacturers of rough-cast glass. We are paving our streets with cypress blocks cut about 6 inches long and laid on cypress 1-inch boards. All are pleased with the result. No noise! no mud. Even the over-worked mule smiles and breathes forth his gratitude audibly! Jacksonville has arrived at that point in her progress when she feels the want of manufactories, and anything that you can do to draw attention to the fact will be duly appreciated.

A. E. MCCLURE.

Building Houses.

PULASKI CITY, VA., April 30, 1887.

Editor Manufacturers' Record:

We are building 12 houses (dwellings), and contemplate erecting 20 more this summer. All are rented in advance of completion.

THE SWANSEA LAND & IMP. CO.

ATHENS, GA., May 2, 1887.

Editor Manufacturers' Record:

We will build, as soon as plans have been accepted, a \$15,000 building solely for Young Men's Christian Association work.

JAS. M. HUMPHRIES.

Developing Manganese Mines.

CEDARTOWN, GA., April 25, 1887.

Editor Manufacturers' Record:

About twelve miles southwest from above town T. J. Nicholl and others have opened manganese mines, from which they are taking out large quantities of manganese of good quality. Parties representing Pittsburgh capitalists have been mining manganese in Polk county, about seven miles northwest from this town, for several months. The ore is being shipped to steel makers at Pittsburgh. Near the same locality the Cherokee Land & Improvement Co. control several hundred acres of manganese lands, which they are preparing to mine. The company has made tests upon several of its properties, and the ore is found upon some of them in great abundance.

CHEROKEE LAND & IMP. CO.

A. RICHARDSON, Sec.

To Erect a Compress.

WASHINGTON, LA., April 25, 1887.

Editor Manufacturers' Record:

A subscription has been raised in this town and nearest vicinity to erect a compress in this town. It is intended as a stock company, and will be organized to-day.

J. POUSS.

To Build a Railroad.

NATCHITOCHES, LA., April 26, 1887.

Editor Manufacturers' Record:

It is our intention to build a tap road from Natchitoches to the Texas & Pacific, and will have the same completed at an early date. This will open up one of the finest agricultural sections in the world.

RED RIVER LAND CO.

To Manufacture Agricultural Implements.

MACON, GA., April 25, 1887.

Editor Manufacturers' Record:

The Macon Agricultural Works is a company formed by the hardware trade of Macon to manufacture plow shares, agricultural implements and such other articles in iron and wood as may suggest themselves.

DUNLAP & WORTHAM.

To Establish a Car Wheel Foundry.

DALLAS, TEX., April 25, 1887.

Editor Manufacturers' Record:

I am about to establish a car wheel foundry at Houston in this State.

JOHN F. DICKSON.

5-Ton Ice Factory.

JOHNSON CITY, TENN., April 29, 1887.

Editor Manufacturers' Record:

We have contracted for a 5-ton ice machine, which we hope to get in within the next sixty days.

JOHNSON CITY WATER WORKS CO.

C. K. MCCALLUM, President.

Tannery to be Started.

FORT WORTH, TEX., April 27, 1887.

Editor Manufacturers' Record:

It is the intention to start a tannery here with a capital stock of \$10,000, to be paid in monthly instalments of \$10 on each share of \$100. The company has been organized and work is expected to begin about the middle of next month. An iron foundry with a capital stock of \$50,000 has also been recently chartered, and bids are being advertised for the erection of a plant.

J. P. NICKS.

MONTGOMERY, ALA., April 25, 1887.

Editor Manufacturers' Record:

We have organized a land company and our stock represents actual money values, which an inspection will verify. We have over 7,000 acres of land, including 900 acres in the corporate limits of Jacksonville, and on our property are some of the largest and finest deposits of brown and red iron ores in Alabama, and an unlimited supply of first-class limestone. An abundant supply of water is at hand. Coal in large quantities is only 28 miles distant with railroad connection, save three miles over easy grade. The surrounding country is a fine agricultural section and abounds in minerals. We are 12 miles north of Anniston on the E. T. V. & G. R. R., and with the completion of the contemplated line now being surveyed from Carrollton, Ga., to Decatur, we will have in connection with the E. & W. R. R. from Cedartown to Broken Arrow, now in operation, exceptional facilities for manufactures and expect to establish them and make a considerable town. We now have a population of about 1,400, and with the advantages we possess I can see no reason why the town should not be a success.

JACKSONVILLE LAND CO.,

ALEX. T. LONDON, Pres.

MACON, GA., April 29, 1887.

Editor Manufacturers' Record:

One market house will be built to cost \$20,000. Will issue \$20,000 5 per cent. bonds to pay for same. A small premium is offered for the bonds.

WM. LEE ELLIS.

CROSS PLAINS, ALA., April 29, 1887.

Editor Manufacturers' Record:

Iron ore mines are being developed here by Wilson Bros., S. D. McClelen, T. P. Savage and others.

W. A. WILSON.

RICHMOND STATION, TENN., April 15, 1887.

Editor Manufacturers' Record:

I have started my distillery and am progressing finely.

F. M. PERDUE.

The South Baltimore Car Works.

The South Baltimore Harbor & Improvement Company has for a long time been quietly at work preparing for the development of their extensive property in and around Curtis Bay harbor, on the Anne Arundel shore of the Patapsco river, opposite the city, by locating manufactures there. The company owns the entire harbor (Bay) and adjacent lands, comprising a water front of about five miles. From this point there is a gradual ascent, so that when the crest of the activity is reached, it is found to be 160 feet above tide. This land has been surveyed and divided into lots by the owners, reserving ample territory along the water front and in the near vicinity for extensive manufacturing and industrial establishments—a number of which have been proposed and discussed for some time by merchants and other citizens of Baltimore, including the much-talked-of sugar refinery and a steel plant for manufacturing guns, etc. Regarding these two enterprises, however, there is nothing definite yet, but the arrangements have been fully consummated for the immediate building of the South Baltimore Car Works, previously mentioned in the MANUFACTURERS' RECORD. Some time since the land was secured at Curtis Bay for these works, and proposals invited from builders and contractors for the construction of buildings, furnaces, etc., for the shops of the car works, which will cover an area of ground 1,600x520 feet. The directors met in this city on Tuesday last at the office of the president, Mr. William Keyser, and awarded contracts for the erection of the buildings to Philip Walsh & Sons, the amount being about \$50,000.

It is the purpose of the company to build all kinds of railway cars, from the finest palace and sleepers to the heaviest box and gondola cars for the transportation of freight; also cars for street railways. The capital stock paid in is \$200,000, and the number of hands to be employed will be about 500, who, with their families, will find on the elevated grounds near the works comfortable cottages for homes.

Mr. Wm. S. Rayner is president of the South Baltimore Harbor & Improvement and Curtis Bay Companies; and, as already stated, Mr. William Keyser is president of the Car Works Company, the additional directors being Messrs. Robert Garrett, Wm. S. Rayner, D. L. Bartlett, Oliver A. Parker, Thomas Deford and Clinton W. Paine.

The Baltimore & Ohio Railroad has its Curtis Bay terminal at this place, and extending into the harbor there is a solid pier 750 feet long, 120 feet wide, with 30 feet of water in the docks on both sides.

Notes from Macon.

MACON, GA., April 29, 1887.

Editor Manufacturers' Record:

In addition to the \$500,000 construction company organized last week to build the Georgia Southern & Florida Railroad, surveyors are now at work locating a line from Macon via La Grange to Birmingham, Ala., and although Macon is now connected with Savannah, Ga., by two lines, still a third one is in course of construction, about 50 miles already being graded. The Macon Manufacturing Co. (S. S. Dunlap & Co. and Campbell, Vansyckle & Co.) have bought one acre of ground near Collins Manufacturing Co's wagon works and will erect an immense plow works. The Davenport Chemical Co. will move their factory to Macon soon. The Macon Grooved Picket Fence Co. organized last month, and now have orders ahead for six months. The State Agricultural Society will hold their annual State fair in this city in October. It is rumored that stock is all taken for a new bank to be called the Second National Bank.

W. W. COLLINS.

Manufacturers' Record Co., Publishers,
BALTIMORE, MD.

PITTSBURGH LOCOMOTIVE AND CAR WORKS,

PITTSBURGH, PA., Manufacturers of

Locomotive Engines for Broad or Narrow Gauge Roads,

From standard designs or according to specifications, to suit purchasers.

TANKS, LOCOMOTIVES OR STATIONARY BOILERS FURNISHED AT SHORT NOTICE.

A. STEWART, Pres't.

D. A. WIGHTMAN, Supt.

WILSON MILLER, Sec'y and Treas.



BUFFALO HAMMER CO., Buffalo, N. Y., U. S. A., Manufacturers of a full line of
Solid Cast Steel Hammers, Sledges, Mauls,



RAILROAD TRACK TOOLS. &c.

Every Hammer or Tool having our name is fully warranted. Catalogues and discounts sent on application.

BACNALL & LOUD BLOCK CO. BOSTON, MASS.

Largest Manufacturers of Tackle Blocks in the World.

Manufacturers of the Latest Improved Self-Adjusting ROLLER BUSHED and GENUINE METALINE BUSHED and Iron Bushed Rope and Iron Strapped

TACKLE BLOCKS.

CLASP OPEN.



Improved Self-Adjusting Roller Bushed Iron Sheave.

Send for the Celebrated
STAR BRAND.



Improved Harcourt Patent Block.

Send for Catalogue
No. 5.



Improved Self-Locking Link Snatch Block.

Stearns' New Bench Drill.

Stove dealers, blacksmiths, wagon makers, tinsmiths and mechanics in general in need of a small, light drill will appreciate the new bench drill which we illustrate, because it combines the two distinctive features needed by them, namely, a good working machine and at the same time a cheap one. Although so recently introduced to the trade, the manufacturers report that several thousand have been sold and have given entire satisfaction.

The new feature of this drill consists in the spindle being fed down quickly to the



NEW BENCH DRILL.

work by simply turning the crank, and by reversing the motion of the crank the spindle is as quickly drawn from the work. It is 24 inches high; drills $\frac{1}{8}$ to $\frac{1}{2}$ -inch hole square with the bed plate. The run of the screw is $3\frac{1}{2}$ inches; the drill stock is 13-16 inch in diameter. Each drill is furnished with a chuck which attaches to the spindle and will hold a $\frac{3}{8}$ round drill or the ordinary square tapered shank or brace drill. The balance wheel weighs 6 pounds, which is sufficient to carry an ordinary drill smoothly and is not heavy enough to break small drills. The bearings are carefully furnished with standard size reamers and all parts are inter-

PEERLESS.



The Gooch "Peerless"

And "Giant" Freezers.

OUR FREEZERS STAND UNRIVALED.

THE BEST GOODS EVER MADE.

Superior in Every Particular.

No other Freezers ever had such a sale. Send for Price-List and Discounts.

PRICES REDUCED FOR 1887

MANUFACTURED BY THE

GOOCH FREEZER CO.

28, 30, 32, 34, E. 7 1/2 St.,
36 and 38

CINCINNATI, O.



Cleveland Machine Co.

**SUPERIOR
OLID
TEEL
HEARS.**

FORGED
FROM

BAR STEEL

AND
TEMPERED
IN

OIL.

WE CHALLENGE COMPETITION FOR

→ Cutting and Wearing Qualities. ←

THE FINEST. AS GOOD AS THE BEST.

We Expect to Lead, and you cannot afford to lose a chance of keeping posted on the IMPROVEMENTS of the age. Get our prices, and then try a sample order. Your customers will compel you to order again. Address, with name of paper where you saw this,

The CLEVELAND MACHINE CO., 143 to 161 Leonard St., CLEVELAND, O.

changeable. The crank has an extension for large drilling and all allowances are made for strength and durability. Excellent material and workmanship have been used in the construction, the main standard nicely japanned, the hand wheel nickel plated and the balance wheel painted vermillion, the combination not only making a useful and attractive but highly finished machine. For price, &c., send for illustrated circular F of drilling machines, drills, bits, &c., to E. C. Stearns & Co., Syracuse.

EVERY engineer should have beside him a box of "Dixon's American Graphite." It is the best anti-friction agent and preventive of a hot box that science has perfected. If your local dealer does not keep it, address Jos. Dixon Crucible Co., Jersey City, N. J.

NATIONAL WIRE & IRON CO.

DETROIT, MICH.,

Manufacturers



ALSO A FULL
STOCK OF

WIRE CLOTH

Galvanized,
Iron and Steel,
Brass & Copper.

Galvanized Poultry Netting.

WRITE FOR DISCOUNTS.



CLEVELAND TWIST DRILL CO. } Send for Catalogue } 24 & 26 West-st., Cleveland, O.
and prices. } 101 Chambers-st., New York.

SILVER PLATED WARE.

Wm. Rogers Manf. Co.dis 50¢ to 10¢
Homes, Booth & Hayden.....dis 50¢ to 10¢
Wallace's Steel Silver Plated.....dis 33¢ to 10¢
Rogers Bros 1847.....dis 50¢ to 5¢
C. Rogers & Bro.....dis 50¢ to 10¢

SCREWS.

Standard new list, Feb. 15.
Flat Head Bright.....75¢
Round Head Bright.....70¢
Flat Head Brass.....65¢
Round Head Brass.....60¢
Flat Head Blue (add 5¢ to net).....75¢
Continental Flat Head.....80¢
Brass and Silver Capped.....40¢
Japanned Flat Head.....dis 55¢ to 10¢
Coach, Patent Gimlet Point.....dis 66¢ to 5¢
Coach, Common or Lag.....dis 70¢ to 5¢
Bed.....dis 25¢
Machine, Flat Head, Iron.....dis 55¢ to 10¢
Machine, Round Head, Iron.....dis 55¢ to 10¢
Bench, Iron.....dis 55¢ to 10¢
Bench, Wood, Beach.....dis 55¢ to 10¢
Bench, Wood, Hickory.....dis 55¢ to 10¢
Hand, Wood.....dis 55¢ to 10¢
Hand Rail, Sargent's.....dis 55¢ to 10¢
Hand Rail, Humason, Beckley & Co.'s.....dis 40¢ to 10¢
Hand Rail, Am. Screw Co., list Jan. 1, '81.....dis 70¢
Jack (Wilson's).....dis 25¢

SCREEN FRAMES AND MIXTURES.

Standard Window Screens No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Porter's Patent Window and Door Screen Frames:

White. Walnut.

No. 20.....dis 75¢
No. 21.....dis 75¢
No. 22.....dis 75¢
No. 23.....dis 75¢
No. 24.....dis 75¢
No. 25.....dis 75¢
No. 26.....dis 75¢
No. 27.....dis 75¢
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No. 96.....dis 75¢
No. 97.....dis 75¢
No. 98.....dis 75¢
No. 99.....dis 75¢
No. 100.....dis 75¢

Porter's Corners

No. 1. Corners and Sticks complete for a three-foot window, 1/2 doz sets, Bronzed, \$2.40; Nickel, \$3.60

No. 1 1/2. " " 1/2 doz sets, Bronzed, \$3.25; Nickel, \$4.50

No. 2. " " 1/2 doz sets, Bronzed, \$4.00; Nickel, \$5.20

No. 3. " " 1/2 doz sets, Bronzed, \$4.80; Nickel, \$6.00

No. 4. " " 1/2 doz sets, Bronzed, \$5.60; Nickel, \$6.80

No. 5. " " 1/2 doz sets, Bronzed, \$6.40; Nickel, \$7.60

No. 6. " " 1/2 doz sets, Bronzed, \$7.20; Nickel, \$8.40

No. 7. " " 1/2 doz sets, Bronzed, \$8.00; Nickel, \$9.20

No. 8. " " 1/2 doz sets, Bronzed, \$8.80; Nickel, \$10.00

No. 9. " " 1/2 doz sets, Bronzed, \$9.60; Nickel, \$10.80

No. 10. " " 1/2 doz sets, Bronzed, \$10.40; Nickel, \$11.60

No. 11. " " 1/2 doz sets, Bronzed, \$11.20; Nickel, \$12.40

No. 12. " " 1/2 doz sets, Bronzed, \$12.00; Nickel, \$13.20

No. 13. " " 1/2 doz sets, Bronzed, \$12.80; Nickel, \$14.00

No. 14. " " 1/2 doz sets, Bronzed, \$13.60; Nickel, \$14.80

No. 15. " " 1/2 doz sets, Bronzed, \$14.40; Nickel, \$15.60

No. 16. " " 1/2 doz sets, Bronzed, \$15.20; Nickel, \$16.40

No. 17. " " 1/2 doz sets, Bronzed, \$16.00; Nickel, \$17.20

No. 18. " " 1/2 doz sets, Bronzed, \$16.80; Nickel, \$18.00

No. 19. " " 1/2 doz sets, Bronzed, \$17.60; Nickel, \$18.80

No. 20. " " 1/2 doz sets, Bronzed, \$18.40; Nickel, \$19.60

No. 21. " " 1/2 doz sets, Bronzed, \$19.20; Nickel, \$20.40

No. 22. " " 1/2 doz sets, Bronzed, \$20.00; Nickel, \$21.20

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No. 24. " " 1/2 doz sets, Bronzed, \$21.60; Nickel, \$22.80

No. 25. " " 1/2 doz sets, Bronzed, \$22.40; Nickel, \$23.60

No. 26. " " 1/2 doz sets, Bronzed, \$23.20; Nickel, \$24.40

No. 27. " " 1/2 doz sets, Bronzed, \$24.00; Nickel, \$25.20

No. 28. " " 1/2 doz sets, Bronzed, \$24.80; Nickel, \$26.00

No. 29. " " 1/2 doz sets, Bronzed, \$25.60; Nickel, \$26.80

No. 30. " " 1/2 doz sets, Bronzed, \$26.40; Nickel, \$27.60

No. 31. " " 1/2 doz sets, Bronzed, \$27.20; Nickel, \$28.40

No. 32. " " 1/2 doz sets, Bronzed, \$28.00; Nickel, \$29.20

No. 33. " " 1/2 doz sets, Bronzed, \$28.80; Nickel, \$30.00

No. 34. " " 1/2 doz sets, Bronzed, \$29.60; Nickel, \$30.80

No. 35. " " 1/2 doz sets, Bronzed, \$30.40; Nickel, \$31.60

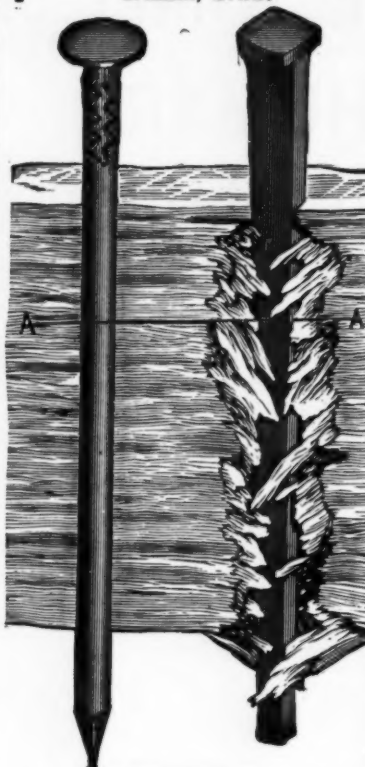
No. 36. " " 1/2 doz sets, Bronzed, \$31.20; Nickel, \$32.40

No. 37. " " 1/2 doz sets, Bronzed, \$32.00; Nickel, \$33.20

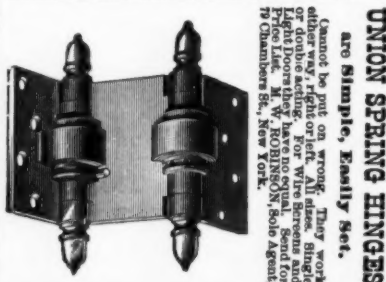
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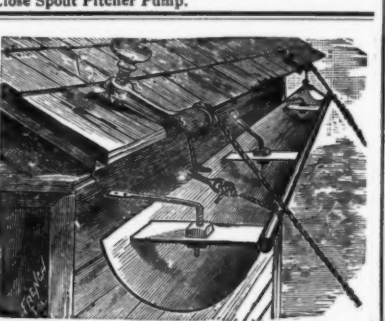
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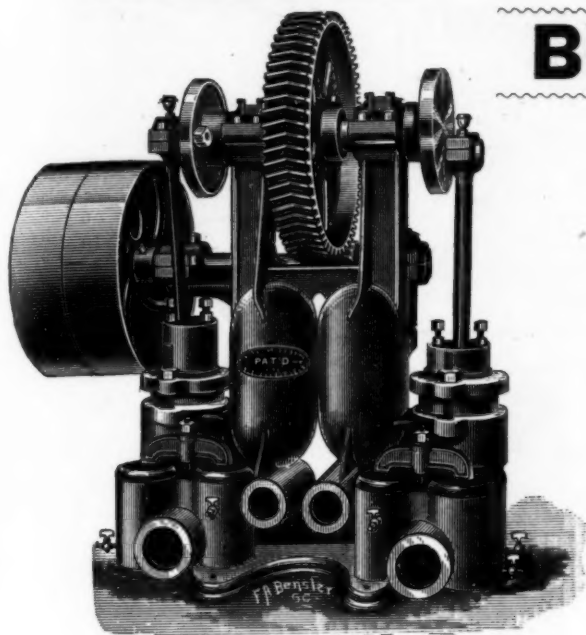
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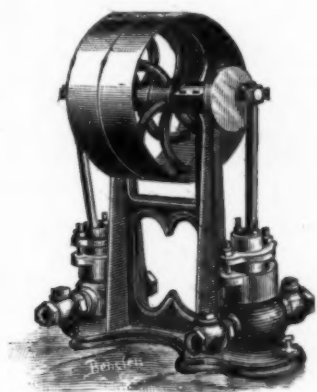
✱ D. P. STEWART. ✱

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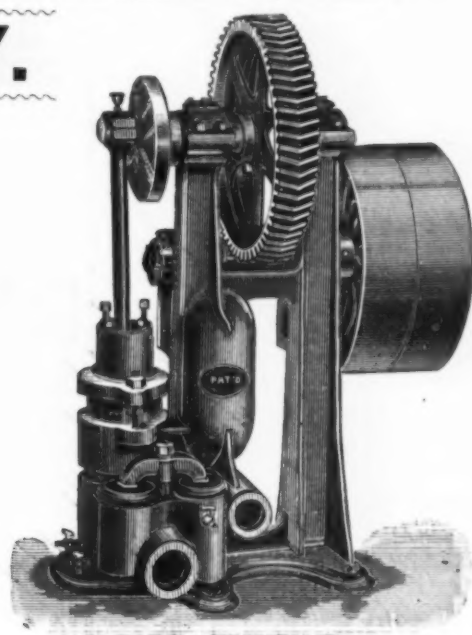
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New Patent No. 5 Double Plunger.



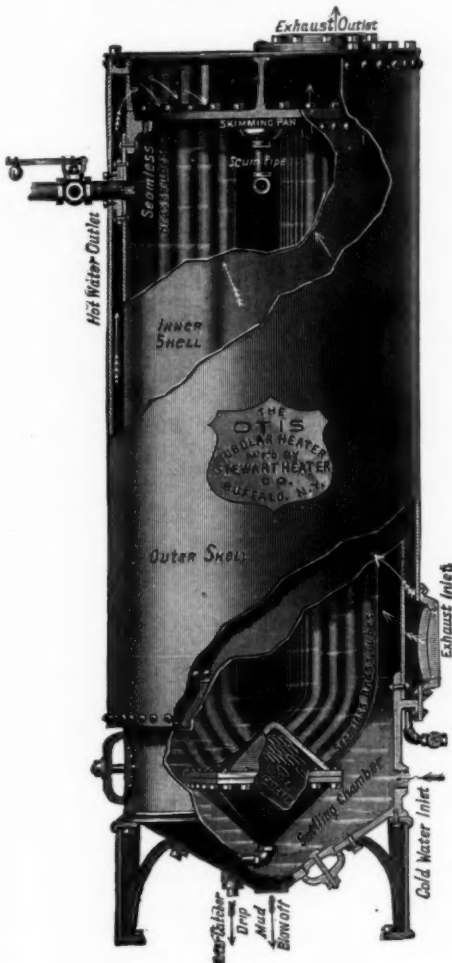
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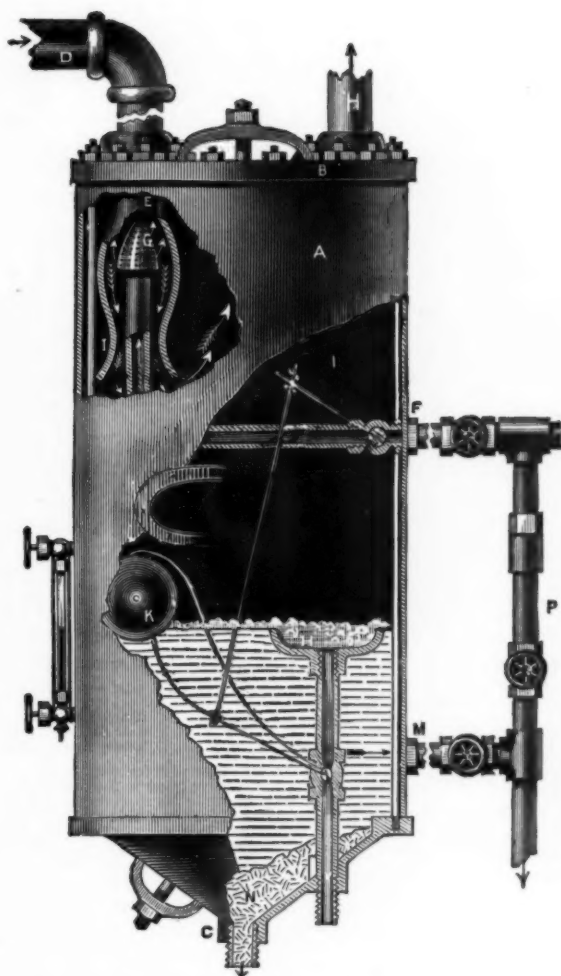
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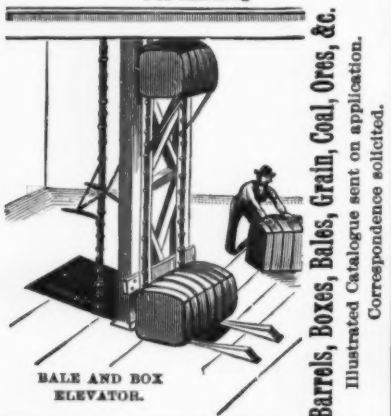
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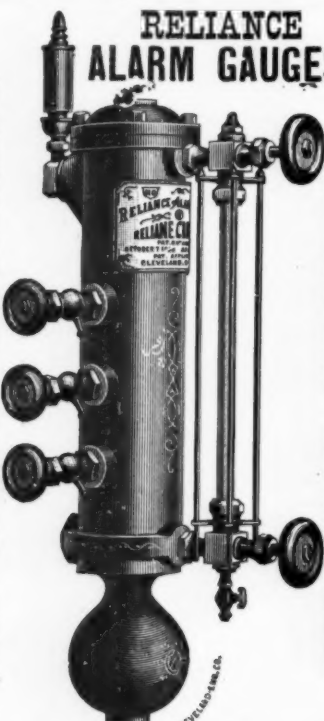
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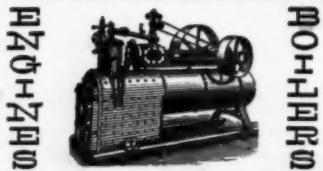
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This fact is recognized, not only in this country, but in the United Kingdom as well, where the
"PATAPSCO SUPERLATIVE" commands decidedly more money than any other
American Flour, thereby clearly demonstrating its superior qualities for making the whitest,
sweetest and most nutritious bread.

ASK YOUR GROCER FOR IT, ALSO FOR

PATAPSCO FAMILY,
CAPE HENRY FAMILY,
PATAPSCO EXTRA,NORTH POINT FAMILY,
CHESAPEAKE EXTRA,
BEDFORD FAMILY,ORANGE GROVE EXTRA,
MAPLETON FAMILY,
PIMLICO (GRAHAM.)**C. A. GAMBRILL MFG CO.**

Office, 32 Commerce St., Baltimore, Md.

BAY STATE HOUSE,

WORCESTER, MASS.

W. L. SHEPARD, Proprietor.This House has been thoroughly repaired and renovated, and will be KEPT STRICTLY FIRST-
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The Only First-Class Hotel in the City. Rates, \$3.00 and \$2.50 per day

Colonnade Hotel,

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One block from new Penna. Railroad Depot,

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FOR ALL
SOUTHERN TRAVEL.**Massasoit House,**

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M. & E. S. CHAPIN, Proprietors,

Near the Union Depot.

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The True Idea of Assurance.
Women's Mutual Insurance and ACCIDENT COMPANY.**OFFICERS AND**
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Elizabeth S. Roberts, H. Louise Gates,**DIRECTORS:**
ELIZABETH HARDENBURGH, Treas.
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MEDICAL EXAMINERS.

ALFRED K. HILLS, M. D., 465 Fifth Avenue.**JOHN A. KAMPING, Attorney and Counsel, 126 Broadway, New York.****MARY PUTNAM JACOBI, M. D., 119 W. 34th Street**

Incorporated under the Laws of New York.

ITS OBJECT.
This company is the pioneer in throwing down the bars
of unjust discrimination against women in life insurance.
Statistics and common observation prove mortality to be
in favor of females at every age, and married as well as
single. To remove this prejudice, and to secure to women
an equal estimation in her insurability, the promoters of
this enterprise have devoted themselves. Consistently
with this principle **WOMEN AND MEN** are equally in-
sured in this company without discrimination on ac-
count of sex.ITS MEMBERSHIP
comprises persons between the ages of 18 and 65, of ap-
proved physical condition. The Life Class is separate and
distinct from the Accident Class, members being liable for
losses only occurring in the class to which they belong.ITS PLAN
secures insurance at cost, and embraces the best features
of similar associations, with such improvements added as
enlightened experience has shown to be desirable for the
member's advantage and the security of the association.ITS SAFETY AND SECURITY
consists in its **ECONOMICAL** system, its **IMPOSSI-
BILITY** of insolvency, and its **SECURITY RESERVE**FINALLY.
This company avoids complicated schemes and plans by
means of which impossible results are promised. Its con-
tracts are plain, easily fulfilled and liberal. It issues the
following forms:

1. Ordinary Life Policy, \$100 to \$10,000.
2. Ordinary Accident Policy, \$5,000 death indemnity; \$25 weekly.
3. Combined Life and Accident Policy.
4. \$500 Savings Bond.

BANKERS:

BANK OF THE METROPOLIS, New York City.

DEPOSITORY OF RESERVE FUND:

FARMERS' LOAN AND TRUST CO., New York City.

The officers would be pleased to furnish any further par-
ticulars which may be desired in relation to the Company's
affairs, or the way to obtain a policy.Agents are desired in every city, village and district
throughout the healthful sections of the country.Address all communications to the
**WOMEN'S MUTUAL INSURANCE AND
ACCIDENT CO.,**
108 Broadway, New York

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"THE NEW SOUTH."

Price \$2.50. Handsomely Bound in Cloth.

MANUFACTURERS' RECORD Co., Publishers.

For Sale

THE
TUSKALOOSA

Cotton Mills

TUSKALOOSA,
ALABAMA.

Desiring a change of business on account of the health of my son, who is superintendent, I offer a

*Rare Chance for
Investment to
Capitalists.*

This mill was organized under the general incorporation law of Alabama in 1879, with a capital of \$40,000. Most of its earnings have been invested in enlarging and improving the mill. It has a 125-Horse-Power Engine, made three years ago by William Wright, Newburgh, N. Y., and Two First-Class Steel Boilers, five feet in diameter, sixteen feet long, with forty-six 4-inch flues in each, made last year by Webb & Co., of Chattanooga.

172 THOMAS WOODS' LOOMS

and all necessary machinery, by which its widely-known and justly-celebrated

"Black Warrior Plaids"

are manufactured. With a full line of first class customers its production is sold several months ahead. The Buildings Alone Cost Over \$25,000, and the Company owns five lots in the rapidly growing city of Tuscaloosa.

The Entire Property of the Company is Exempt from Municipal Taxes for Twelve years.

It has \$70,000 of assets over and above its liabilities, placing buildings and grounds at the low valuation of \$18,000.

I offer 382 shares of the original 400 shares of this Company for \$90,000, half cash, balance in one and two years with 8 per cent. interest, secured by mortgage on the property, and will guarantee it will make and pay a dividend this year of 15 per cent. on the purchase money.

Parties desiring to purchase are invited to inspect the property, and will be requested to examine the books of the Company that they may fully understand the fine opportunity here presented for Manufacturing Cotton Plaids in the South.

J. H. FITTS.

TUSKALOOSA, ALA., March 28, 1887.

A Big Chance

—THE—

Canton Cotton Factory,
CANTON, MISS.,

Is Offered for Sale at

\$18,000

This factory is situated on the line of the Illinois Central Railroad, one mile north of the city of Canton, Miss., in a splendid cotton region, good water supply, cheap fuel (wood and Alabama coal) and abundant labor. The factory is equally well adapted for a WOOLEN MILL OR COTTON-SEED OIL MILL. The property consists of 28 1/2 acres of land, running parallel to the Railroad, and adjacent to it. The factory building is in the center of the tract, one hundred yards from the railroad, is a brick building, substantially built, 200x90 feet, two stories high, brick chimney stack 75 feet high. The factory contains ONE ENGINE, 200 HORSE-POWER; TWO LAPPERS; A CONSIDERABLE QUANTITY OF SHAFTING AND PULLEYS. There is a double dwelling house on the property. The climate healthy. Manufacturing in Mississippi is exempt from taxation. The property has been paid for in full by the owner; it is unincumbered. The building alone cost \$40,000. This is a magnificent opportunity to engage in cotton manufacturing in the South. For full particulars, address

D. ESTE REYNOLDS,

Care MANUFACTURERS' RECORD, Baltimore.

Electric-Lighting Plants

For Sale Cheap.

Used three months during one season of a New England Exposition.

GOOD AS NEW.

FULLER DYNAMOS,

One of fifty (50) arc lamps, one of twenty-three (23.) and one of nine (9.)

All in First-Class Order

AND ALL COMPLETE.

WILL BE SOLD AT ONE HALF OF FIRST COST.

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Care of MANUFACTURERS' RECORD,
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The Machine Tool Business of
E. P. BULLARD,

—AND THE—

Bridgeport Machine Tool Works,

Established at 14 Dey Street, in 1875,
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No. 72 Warren St. & 62 College Place,

Near Chambers Street Station of
the 6th Avenue Elevated R. R.

Send for new list of tools for immediate delivery.

New York, April, 1887.

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Licensed by and Succeeding to the Commercial Business of the

CONSOLIDATED ELECTRIC LIGHT COMPANY.

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PATENTS.



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No. 52 West Fayette St.

PHILADELPHIA OFFICE:

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BOSTON OFFICE:

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The DYNAMO of this Company is AUTOMATIC in its regulation, and will maintain a UNIFORM LIGHT, with ALL or ANY PORTION of the lights in Circuit. Our LAMP will not BLACKEN and will MAINTAIN its CANDLE POWER during its Guaranteed life.

Plans and Estimates Furnished for all kinds of Incandescent Lighting.

ESTIMATES FURNISHED FOR THE THOMSON-HOUSTON SYSTEM OF ARC LIGHTING.

IN PREPARATION.

READY APRIL 1.

Poor's Directory of Railway Officials

FOR 1887.

A SUPPLEMENT TO POOR'S MANUAL OF RAILROADS.

Cloth, 400 Pages, Royal Octavo.

Price, \$2.00 per Copy.

CONTAINING LISTS OF

Officers of all Steam Railroad Companies in the United States and Canada; Officers of all Street Railroad Companies in the United States and Canada; Officers of New Railroads, now in process of construction, with data respecting Location of Line, etc., etc.; Officers of Auxiliary Enterprises—Bridge and Union Depot Companies, Fast Freight Lines, Express, Sleeping-Car and Equipment Companies, etc., etc.; Officers of Industrial Enterprises dependent on the Railway System—Car-Axle Manufacturers, Car Builders, Car-Wheel Manufacturers, Car-Spring Manufacturers, Rail Mills, Locomotive Builders, Bridge Builders, Contractors, etc., etc.; Officers of Associations of Railroad Officials and of Railroad Employees, Pools, Commissions, Boards of Railroad Commissioners, etc., etc.

TO THIS IS ADDED

An Alphabetical Index to the names of all the officials above mentioned, with a convenient system of reference, showing lines with which each is connected; and

An Alphabetical Index to Cities and Towns, by means of which can be ascertained the Names of all Officials in any particular city or town at once.

FOREIGN RAILROADS.

In addition to the information given respecting the railroads of the United States and Canada, the very excellent list of railroads in Mexico, West Indies, Central America, South America and Hawaiian Islands, given in last number of this work, and which proved such an acceptable feature of the book (see below) will be very much improved and elaborated.

COMMENTS OF THE PRESS.

"The least that can be said of this volume is that it is accurate as it is comprehensive; it is far ahead of any publication of the kind which has yet been attempted, and will be an extremely useful work of reference."—*Railroad Gazette*. "Brings within convenient compass most of the information required regarding railway officials." * * * "The value of the book is so self-evident that a further review seems unnecessary."—*Railway News*. "In its way fully as valuable as the MANUAL."—*Boston Commercial Bulletin*. "Of great value to the commercial industries of the country."—*London (Eng.) Bulletin*. "Useful to those dealing with railroad companies."—*American Machinist*. "Will undoubtedly prove of much value and service to many."—*Iron Age*. "This immense compilation will be useful as a mailing guide. That there is a demand for it is evidenced by its publication; the Poores have a keen scent for success and know how to make it. The list of railways in Mexico, Central and South America, which concludes this volume, is the neatest and most compact statement of the subject we have seen."—*New Orleans Picayune*.

COMMENTS OF RAILROAD OFFICIALS.

OFFICE OF PURCHASING COMMITTEE, WABASH, ST. LOUIS & PACIFIC RAILWAY, }
195 BROADWAY, NEW YORK, Oct. 5, 1886.

MESSRS. H. V. & H. W. POOR, 70 Wall Street, City.

GENTLEMEN:—I have received a copy of your Directory, and find it to be a very complete and useful work of the kind. The indexes to officials and advertisements are particularly convenient, and when extended, as you propose in the coming year, will make the volume a practical business directory. Purchasing agents and others having these matters to classify will appreciate the great utility of the arrangement. The book ought to be a success.

Yours truly,

(Signed) O. D. ASHLEY, Secretary,
Wabash, St. Louis & Pacific Railway Company.

OFFICE OF THE GENERAL PASSENGER AGENT, NEW YORK, LAKE ERIE & WESTERN R. R. CO. }

MESSRS. H. V. & H. W. POOR, Publishers of Poor's Directory, etc., 70 Wall Street, City.

DEAR SIR:—I am in receipt of copy of your Directory of Railway Officials and Railway Directors for 1886, and have examined the same and find it very complete. I am especially pleased with your classified Directory of Advertisements, by which parties desiring any kind of railroad supplies can turn to this index and immediately ascertain the names of parties advertising the kind of supplies they desire to obtain. Yours truly,

(Signed)

JNO. N. ABBOTT, General Passenger Agent.

Advertising rates and all other information furnished on application to

POOR'S MANUAL OF RAILROADS,

70 Wall Street, NEW YORK.

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Castings of every
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Stationary, Distillery
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JNO. N. MARQUETTE, 118 W. Falls Ave., {Near Pratt Street,} BALTIMORE, MD.

Record Printing House,

Fine Cut Work
A Specialty.

Cor. Exchange Place
and Commerce St.

The Brunswick Lands Improvement & Colonization Co.

Subscription Books for the Capital Stock of this Company are now open

At the Offices of the Company, Brunswick, Ga., and at (Room 20) 229 Broadway, N. Y.; (Room 4) 85 Devonshire Street, Boston, Mass., and other Branch Offices of the Company until the 1st day of August, 1887.

The Company is formed under and by virtue of a Charter granted June 19, 1886, to ANDREW J. ROGERS, JAMES M. OLMSTEAD, HENRY S. WELLES, DANIEL W. CLARK, GEORGE E. SMITH, JOHN E. SAUNDERS, and FREDERICK G. BRUNEL, and their associates, in accordance with the Laws of the State of Georgia, to run for twenty years, with the right of renewal, and authorizing a Capital Stock of \$100,000, in shares of \$50 each, with power to increase the same at any time to any amount not exceeding \$10,000,000, payable in either money, or real or personal property that may be utilized in the business of the Company. The Charter is, by comity of the States, made operative throughout the entire country.

THE PRELIMINARY ORGANIZATION

Has been duly effected by electing the following named

OFFICERS.

ANDREW J. ROGERS, Prest. JAMES M. OLMSTEAD, Vice-Prest. GEO. E. SMITH, Sec. FRED'K G. BRUNEL, Treas.

DIRECTORS.

A. J. ROGERS, Brunswick, Ga., and 227 W. 10th St., New York.
JAMES M. OLMSTEAD, 85 Devonshire St., Boston, Mass.
HENRY S. WELLES, 229 Broadway, New York.
GEORGE E. SMITH, 32 Broadway, New York.

FREDERIC G. BRUNEL, Grand Union Hotel, New York.
JOHN E. SAUNDERS, Nashville, Tennessee.
DANIEL W. CLARK, 11 Winthrop Street, Hartford, Conn.
WILLIAM B. BURROUGHS, Brunswick, Ga.

EXECUTIVE COMMITTEE.

ANDREW J. ROGERS, HENRY S. WELLES, FREDERICK G. BRUNEL, WILLIAM B. BURROUGHS.

The said Officers and Directors to hold over until the First Meeting of the Stockholders.

INCREASE OF THE CAPITAL STOCK.

In order to promptly acquire ample areas of Land and Harbor Water frontage, for colonization, wharfing and other purposes, as well as obtaining sufficient funds for carrying out the several objects of the Company, the Directors have duly voted an increase of the Capital Stock from \$100,000 to \$3,000,000, payable in either money or in any real or personal property that may be utilized in the business of the Company, (as provided in the charter,) and have authorized the opening of Subscription Books for said \$3,000,000 of Capital Stock.

EUROPEAN CO-OPERATION.

The President of the Company has perfected arrangements with competent European parties whereby they agree to subscribe, or cause to be subscribed, two-thirds of said \$3,000,000 of Capital Stock, provided the other one-third of said Stock is duly subscribed in America, and to pay in \$200,000 for every \$100,000 thereof that shall have been so subscribed in America and paid into the treasury of the Company.

TRANS-ATLANTIC STEAMSHIP LINE.

The President of the Company has also arranged with competent European ship owners for promptly putting on and maintaining a Trans-Atlantic Steamship Line between the port of Brunswick, Ga., and ports in the United Kingdom; said line to comprise a fleet capable of doing all the trans-Atlantic shipping business of the Company, and to be put on as soon as the Company announces itself ready with freights, etc., for trans-Atlantic shipment.

THE GENERAL ENTERPRISE

Comprises the building up and maintaining an extensive domestic and foreign trade at and through the city and port of Brunswick, Ga., and corresponding ports, and engaging in a general system of Lands Improvement, particularly including the building up, extending and beautifying the city and suburbs, and improving and perfecting the Harbor of Brunswick for maritime commerce, and generally aiding in developing the agricultural, mineral and other natural resources of, and settling the surrounding districts and corresponding sections of the interior, with the view to participating in the general benefits and increase in value of properties accruing from such developments and improvements, and to inaugurate and conduct

BUREAUS OF COLONIZATION AND INDUSTRY

As special departments of the General enterprise for commercially engaging in such systems of Colonization and Co operative Industries as will, from time to time, aid in relieving the Labor Markets of all surplus artisans and other workers, including the worthy, able bodied indigent classes, by drawing them off and settling or aiding them in settling and getting fairly started on alternate lots of the Company's Lands, in suitable rural and growing village districts, or so employing or aiding them to find such suitable employment as will make them reciprocally useful to the Company and ensure their becoming self-sustaining and prosperous constituents of the commonwealth, and finally reimbursing the Company with fair profits for all such assistance, thus materially aiding in freeing society of its worthy, able-bodied, destitute and suffering industrious classes by reclaiming them from all anarchical tendencies, and thence through their own prosperity readjusting them as good, law-abiding and patriotic citizens of the Commonwealth.

THE COMMERCIAL DEPARTMENT.

With the foregoing objects in view, the Company will engage in the following enterprises, taking them up and carrying them forward in such business order as will ensure the prosperity of every department of the General Undertakings, beginning with The Commercial Department proper, it being the only medium through which the more benevolent and humane purposes can be successfully carried into effect with profit to the Company. The Directors are already assured of a large paying business from the commencement of active operations in the following specified enterprises, in which the Company will be constantly turning over its funds and realizing from 5 per cent. upwards of net profits every sixty or ninety days. Viz: A General

TRANS-ATLANTIC AND COASTWISE SHIPPING BUSINESS.

Including storing, wharfing and forwarding at and through said port and corresponding ports, and the sending of goods and other valuables through in bond or by through bills of lading to and from any and all points; the advancing of money on bills of lading and on goods and other property in store; and acting as merchants and general agents, and doing a banking and general commission business. In these departments alone the Company will find constant, active, safe and profitable employment for a considerable amount of its capital, thereby ensuring fair dividends from the start.

OTHER SOURCES OF REVENUE.

By judicious purchases, both in respect to price and locality of lands, as well as the suitability of the climate, and thence properly settling immigrants on alternate lots thereof, carefully reserving every alternate farm or section for sale later on, the Company could reasonably expect to realize from 10 to 25 per cent. net on sales of the first alternate farms or other lots, and thence, in future further realizing from 100 to 500 per cent. and upwards from the ultimate sales of the reserved building lots, farms or sections. This plan carried out on a commensurate scale would of itself, without risk of the capital invested, enrich any well-managed company.

GENERAL LANDS IMPROVEMENT DEPARTMENT.

To buy, own and sell lands and deal in real estate and leaseholds generally, and to engage in a general system of Lands Improvement, particularly including the building up, extending and beautifying the City of Brunswick and Suburban districts, and generally developing and settling the surrounding country; the establishing and settling colonies in the interiors of the various States, and parts of States, wherein immigrant settlers and other industrial classes are needed; laying out and building up villages, towns, and cities; making roads, streets and all necessary and profitable improvements; aiding in the fuller development of the vast agricultural, mineral and other

NATURAL RESOURCES OF THE SOUTH,

Southwest and corresponding sections; the breeding and rearing of horses, mules, cattle and live stock generally, for home and foreign markets; the laying out, improving, stocking and working farms of all kinds; developing water powers for manufacturing, milling and other purposes; opening and working coal, iron and other mines, and marble and stone quarries, with a view to making money by profitably employing the idle, and making homes and livings for the worthy, able-bodied indigent classes, as well as making the several properties productive and generally enhancing the values thereof and making them more saleable. In fact, the company offers

SAFE AND PROFITABLE INVESTMENTS

In every department of the General Enterprise, basing the stability of the entire Capital Stock not only upon the General Business of the Company but upon real estate carefully chosen for its intrinsic worth, its suitability for the purposes of the Company and its improvable qualities and possible continual enhancement in value from direct and surrounding improvements.

For a fuller statement of the PURPOSES and PLANS of the Company, see the Charter and Prospectuses, Documents Nos. 1, 2 and 3 of the Company's pamphlets, which can be obtained at the Offices of the Agents, or from any of the Officers of the Company.

FORMS OF APPLICATION

For Stock on the part of those who may desire to subscribe to the Capital Stock, but are unable to reach the Agent or Officer in charge of the Subscription Books, will, on application in writing to such Agent or Officer, or to the President of the Company, be forwarded, together with the necessary instructions for securing the number of Shares such Applicant may desire or that may be allotted to him or her.

PROPOSALS FOR TRANSFERRING LANDS

Or other available property in exchange for Stock in the Company will be entertained, and the suitability, quality and value of the property and titles thereto will be duly examined by proper experts in the interest of the Company; but all such proposals must be submitted in writing to an Agent or Officer, or to the President of the Company on or before the 1st day of August next, and must be accompanied with a full description, giving all particulars, including the situation and value of such property.

ANDREW J. ROGERS, Prest. B. L. I. & C. Co.
229 BROADWAY, (Room 20,) NEW YORK.

DEAN BROS. STEAM PUMP WORKS.**WHY THIS IS PUT HERE!**

For the reason that if you are interested in raising water or other liquids by steam power, we wish to call your attention to the **NEW PULSOMETER,** THE CHEAPEST AND BEST STEAM PUMP IN THE MARKET. PRICES LOWER THAN ANY OTHER. More Efficient, Simple, Durable, and more Economical, both as to running expenses and repairs, than any other Steam Pump. For Mining, Railroad or Steamboat use, Paper Mill, Chemical or Gas Works, Tannery, Brewery or Sugar Refineries, Draining Quarries, Cellars or Plantations, Irrigating or Hydraulic Mining. Call or write for our new 64 page illustrated Descriptive Book containing Full Particulars, Reduced Net Prices, and hundreds of A-1 Testimonials. Mailed Free. Pulsometer Steam Pump Co., 83 John Street, N. Y.

BLAKESLEE MANFG. CO.

67 WASHINGTON ST.,
DU QUOIN, ILL.

STEAM PUMPS

FOR ALL PURPOSES.

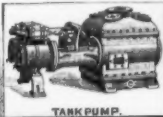
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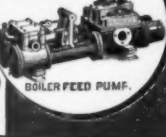
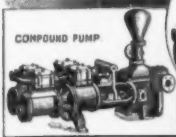
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Grand Rapids; E. F. Osborne, St. Paul; Joshua Hendy Ma-
chine Works, San Francisco; Flynn & Emrich, Baltimore;
Forbes, Liddell & Co., Montgomery; Bailey & Leiby, Charles-
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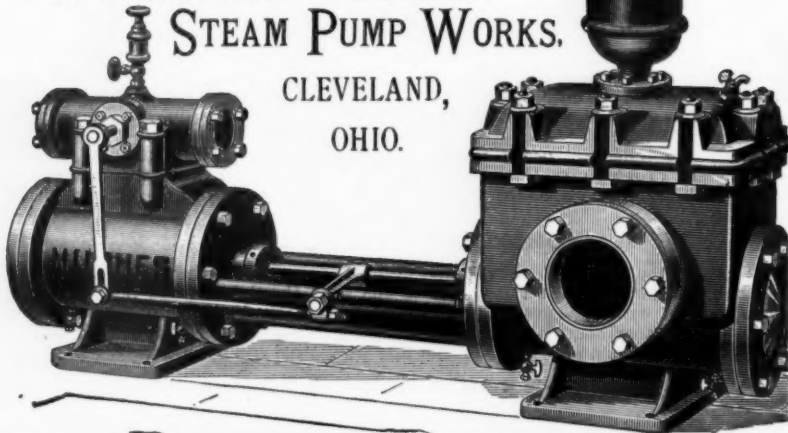
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An easy-working, quick-operating and powerful press. Will successfully press brick made on any Brick or Tile Machine.

The Wrought-Iron Tempering Wheel,
The most thorough mud temperer known. Tempers faster, mixes better and runs lighter than any wheel made.

Barrows, Trucks, Molds, Kiln Doors, &c.

Write us for prices.

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DAYTON, O.

Mention Manufacturers' Record.

**The Spiral Pug Mill
QUAKER BRICK MACHINE.**

Capacity 40,000 Perfect Brick Per Day

Great Saving in Labor and Expense!

We contract to furnish complete Brick-yard outfits,—Engines and everything needed complete. Write for our handsomely illustrated catalogue, containing valuable information. Estimates furnished. Correspondence solicited. Address

FLETCHER & THOMAS, Indianapolis, Ind.

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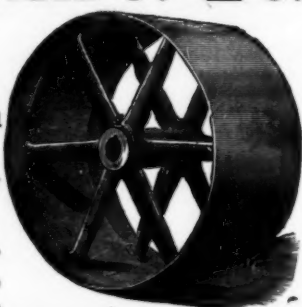
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Cleveland, - Ohio.

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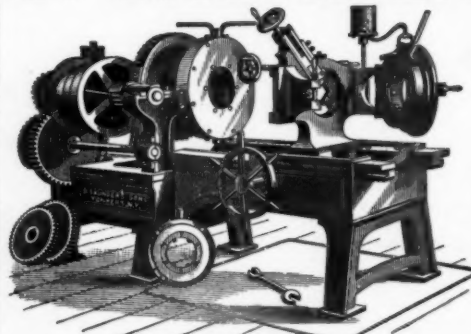
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Pipe Cutting and
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For Pipe Mill and Steam
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Tapping Machines

For Steam Fitting. Also,
**STEAM AND GAS FITTERS
HAND TOOLS,**
Atherton Street.
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**Lightning Well Sinking Machinery.**

THE LARGEST MANUFACTURERS OF WELL TOOLS.

We have sunk 500 feet in ten hours with the REVOLVING PROCESS, 100 feet in 40 minutes by the JETTING PROCESS, and 196 feet in ten hours,—without removing the tools from the well,—by the HYDRAULIC PROCESS. We have averaged one foot in ten minutes, to a depth of 650 feet, with our **DIAMOND POINTED ROCK DRILLS.** We issue an

**Encyclopedia of Well Sinking Ap-
pliances,** containing 700 Engravings, illustrating and de-
scribing all the practical Tools used in Well Sinking. We also

manufacture Wind Mills, Artesian Pumping Engines and Ap-
pliances. We will send this Book on receipt of 25 Cents for Mailing. Can direct purchasers to places
where wells are required. Drillers and Agents Wanted. Address

THE AMERICAN WELL WORKS, Aurora, Ill., U. S. A.

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Founders and Machinists.

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LEFFEL * TURBINE * WATER * WHEEL,

Prices as Low as any other First-Class Wheel.



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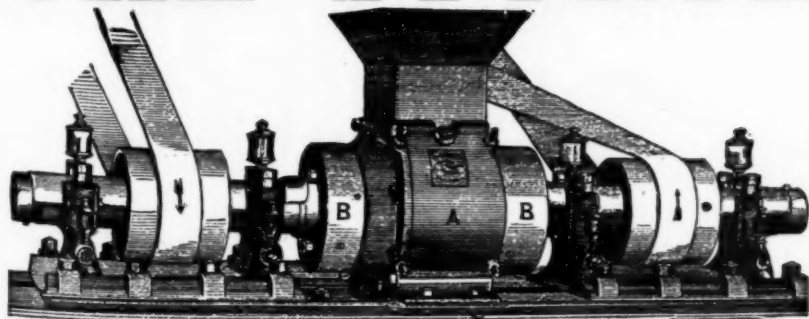
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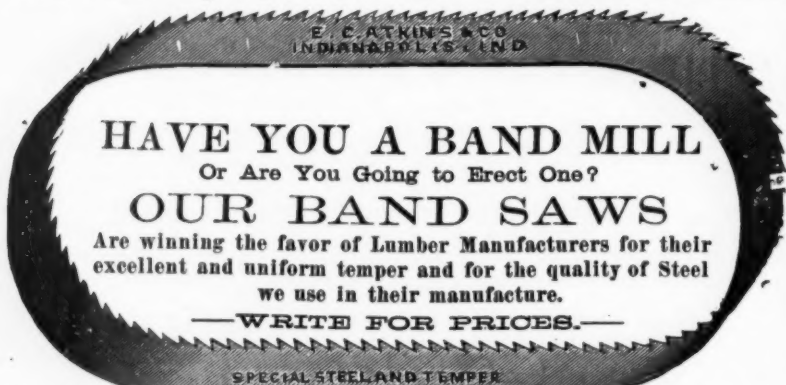
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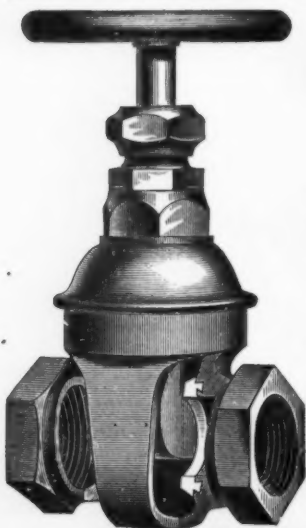
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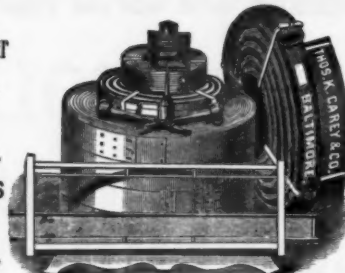
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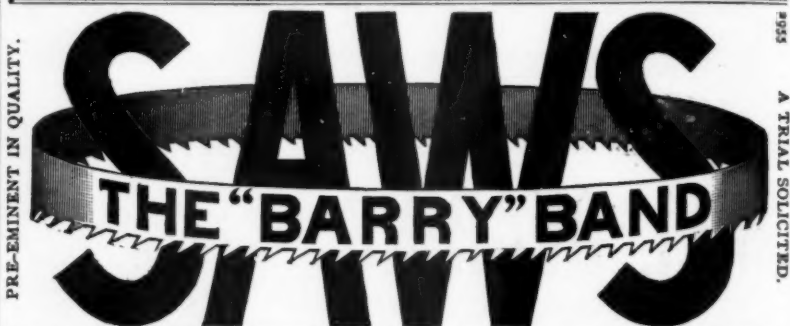
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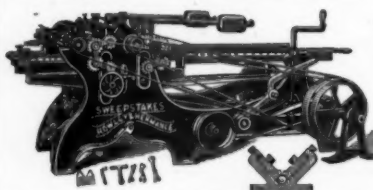
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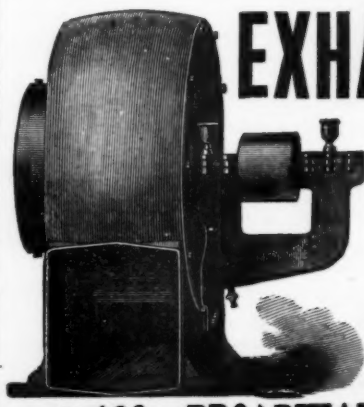
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